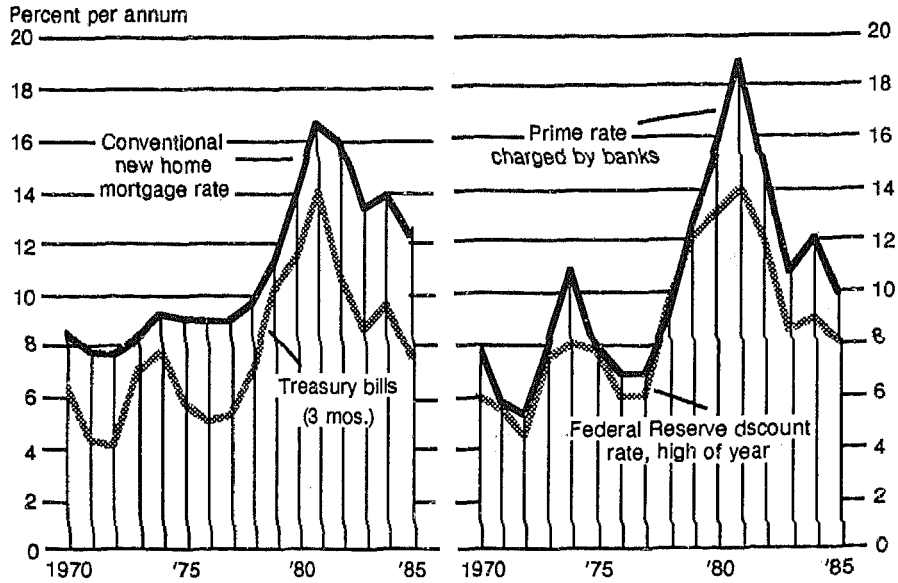
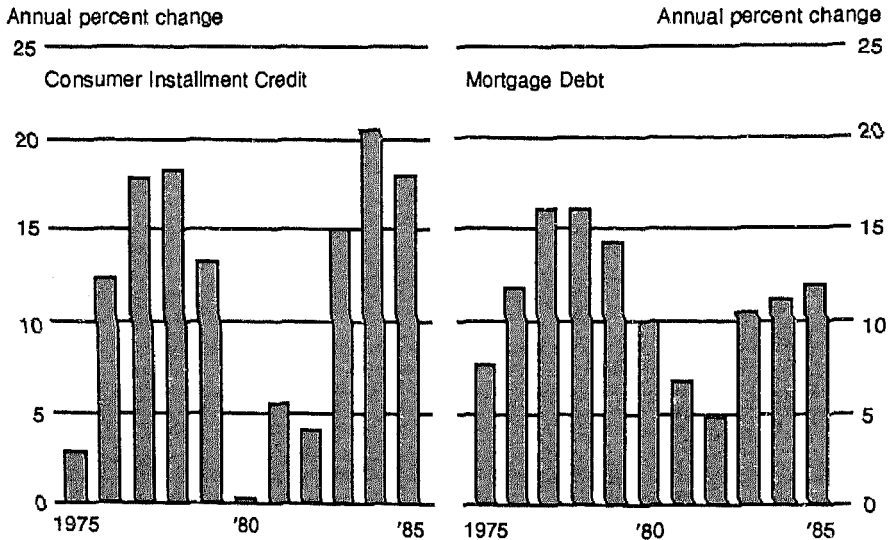


Figure 16.1  
Interest Rates: 1970 to 1985



Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 830 and 833.

Figure 16.2  
Consumer Installment Credit Outstanding and Mortgage Debt Outstanding: 1975 to 1985



Note: Represents change in amounts outstanding.

Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 822 and 824.

# Banking, Finance & Insurance

This section presents data on the Nation's finances, various types of financial institutions, money and credit, securities, and insurance. The primary sources of these data are publications of several departments of the Federal Government, especially the Treasury Department, and independent agencies such as the Federal Deposit Insurance Corporation, the Federal Reserve System, and the Securities and Exchange Commission. National data on insurance are available primarily from private organizations, such as the American Council of Life Insurance.

**Flow of funds.**—The flow of funds accounts of the Federal Reserve System (see tables 793 to 797) bring together statistics on all of the major forms of financial transactions and financial claims to present an economy-wide view of asset and liability relationships. In flow form, the accounts relate borrowing and lending to one another and to the nonfinancial activities that generate income and production. Each claim outstanding is included simultaneously as an asset of the lender and as a liability of the debtor. The accounts also indicate the balance between asset totals and liability totals over the economy as a whole. Several publications of the Board of Governors of the Federal Reserve System contain information on the flow of funds accounts: Summary data on flows, in the *Federal Reserve Bulletin*, *Flow of Funds Accounts* (quarterly), and *Annual Statistical Digest*; and concepts and organization of the accounts, in *Introduction to Flow of Funds* (June 1980).

**Banking system.**—Banks in this country are organized under the laws of both the States and the Federal Government and are regulated by several bank supervisory agencies. State-chartered banks are supervised by officials of the respective States. National banks are supervised by the Comptroller of the Currency. *Reports of Condition* have been collected from national banks since 1863. Summaries of these reports are published in the Comptroller's *Annual Report*, which also presents data on the structure of the national banking system.

The Federal Reserve System was established in 1913 to exercise central banking functions, some of which are shared with the U.S. Treasury. It includes national banks and such State banks as voluntarily join the System. Statements of State bank members are consolidated by the Board of Governors of the Federal Reserve System with data for national banks collected by the Comptroller of the Currency into totals for all member banks of the System. Balance sheet data for member banks and other commercial banks are published quarterly in the *Federal Reserve Bulletin*.

The Federal Deposit Insurance Corporation (FDIC), established in 1933, insures each depositor up to \$100,000 currently in banks that are members of the Federal Reserve System and in such nonmember banks as join the insurance fund. Major item balance sheets for all commercial banks are published monthly in the *Federal Reserve Bulletin*.

**Savings institutions and other credit agencies.**—Savings institutions, insurance companies, finance companies dealing primarily in installment sales financing, credit unions, and personal loan companies represent important sources of funds for the credit market. Savings institutions are primarily involved in credit extension in the form of mortgage loans. Statistics on savings institutions are collected by the Federal Home Loan Bank Board. Statistics on loans, investments, cash, etc., of life insurance companies are published principally by the American Council of Life Insurance in its *Life Insurance Fact Book*. Consumer credit data are published currently in the *Federal Reserve Bulletin*.

Federally chartered credit unions are under the supervision of the National Credit Union Administration, established in 1970. State-chartered credit unions are supervised by the respective State supervisory authorities. The Administration publishes comprehensive program and statistical information on all Federal and federally insured State credit unions in the *Annual Report of the National Credit Union Administration*. Deposit insurance (up to \$100,000 per account) is provided to members of all Federal and those State credit unions that are federally-insured by the National Credit Union Share Insurance Fund which was established in 1970. Deposit insurance for State chartered credit unions is also available in some States under private or State-administered insurance programs.

Government corporations and credit agencies make available credit of specified types or to specified groups of private borrowers, either by lending directly or by insuring or guaranteeing loans

made by private lending institutions. Data on operations of Government credit agencies, along with other Government corporations, are available in reports of individual agencies; data on their assets and liabilities are published in the *Treasury Bulletin*.

**Currency.**—Currency, including coin and paper money, represents more than one-fourth of all media of exchange in the United States, with most payments made by check. All currency is now issued by the Federal Reserve Banks.

**Securities.**—The Securities and Exchange Commission (SEC) was established in 1934 to protect the interests of the public and investors against malpractices in the securities and financial markets and to provide the fullest possible disclosure of information regarding securities to the investing public. Since its inception, the SEC has compiled a comprehensive monthly data series on new securities offerings. The statistics cover securities issued pursuant to the Securities Act of 1933 or exempted from registration pursuant to Regulation A and were publicly offered for cash sale for the account of the issuer, with maturity of more than one year. This series is published in the *SEC Monthly Statistical Review*.

**Insurance.**—Insuring companies, which are regulated by the various States or the District of Columbia, are classified as either life or property. Companies that underwrite accident and health insurance only and those that underwrite accident and health insurance in addition to one or more property lines are included with property insurance. Insuring companies, other than those classified as life, are permitted to underwrite one or more property lines provided they are so licensed and have the necessary capital or surplus.

There are a number of published sources for statistics on the various classes of insurance—life, health, fire, marine, and casualty. Individual States collect data on all insurers operating within their respective jurisdictions, and many of the States publish an annual insurance report giving individual company data and aggregates of certain items for the companies operating within the State. Organizations representing certain classes of insurers publish reports for these classes. Among them are the annual commercial publishers, such as The National Underwriter Company whose *Argus Chart* (annual) contains financial and operating data for individual health and accident insurance companies, including Blue Cross and Blue Shield Plans. The American Council of Life Insurance publishes statistics on life insurance purchases, ownership, benefit payments, and assets in its annual *Life Insurance Fact Book*.

**Historical statistics.**—Tabular headnotes provide cross- references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

**Statistics for States and metropolitan statistical areas (MSAs).**—Data for States and MSAs may also be found in *State and Metropolitan Area Data Book 1986*. For cross-references, see Appendix V.

**No. 793. FLOW OF FUNDS ACCOUNTS—FINANCIAL ASSETS AND LIABILITIES OF FINANCIAL AND NONFINANCIAL INSTITUTIONS, BY SECTOR AND TYPE OF INSTRUMENT: 1985**

[In billions of dollars. As of Dec. 31. Preliminary. A=Assets, L=Liabilities, SDR=Special drawing rights, IMF=International Monetary Fund. RPs=Repurchase Agreements. "N.e.c."=Not elsewhere classified]

TYPE OF INSTRUMENT	TOTAL <sup>1</sup>		PRIVATE DOMESTIC NONFINANCIAL INSTITUTIONS						U.S. GOVERNMENT		FINANCIAL INSTITUTIONS											
	A	L	Total		Households		Business		State and local govts.		Total	Monetary authority	Commercial banking	Nonbank finance		Federally sponsored credit agencies and mortgage pools						
			A	L	A	L	A	L	A	L												
														A	L							
Financial assets.....	18,485.4	(X)	9,806.0	(X)	7,624.1	(X)	1,490.9	(X)	491.0	(X)	368.5	(X)	7,702.6	(X)	243.4	(X)	2,202.3	(X)	4,562.2	(X)	894.6	(X)
Liabilities.....	15,858.5	(X)	6,064.8	(X)	2,459.1	(X)	3,042.0	(X)	563.7	(X)	1,606.5	(X)	7,365.2	(X)	243.4	(X)	2,046.3	(X)	4,390.0	(X)	886.4	(X)
Gold stock and SDR's.....	76.0	-	-	-	-	-	-	-	-	-	7.3	-	11.1	-	11/1	-	-	-	-	-	-	-
IMF position.....	12.0	-	-	-	-	-	-	-	-	-	5.8	-	(2)	-	(2)	-	-	-	-	-	-	-
Official foreign exchange.....	129	129	-	-	-	-	-	-	-	-	18.0	-	21.8	-	7.0	-	-	-	-	-	-	-
Treasury currency, SDR certificates.....	218	18.0	-	-	-	-	-	-	-	-	-	-	59.2	704.7	-	13.6	465.5	44.7	56.8	9	-	
Checkable deposits and currency.....	661.0	704.7	546.7	-	418.9	-	109.2	-	18.6	-	34.0	-	87.6	2,335.9	-	1,228.0	87.6	1,105.8	78.2	44.4	23.4	
Time and savings accounts.....	2,333.9	2,201.7	-	-	2,050.0	-	88.3	-	63.5	-	1.2	-	101.6	194.7	-	150.3	-	-	207.5	-	-	
Fed. funds and security RPs.....	163.4	194.7	61.8	-	-	-	36.3	-	25.5	-	-	-	19.0	207.5	-	-	-	-	-	-	-	
Money market fund shares.....	207.5	207.5	-	-	207.5	-	10.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Foreign deposits.....	29.6	29.5	10.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Life insurance reserves.....	253.8	253.8	253.8	-	253.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
U.S. savings bonds.....	1,705.9	1,705.9	1,705.9	-	1,705.9	-	-	-	-	-	10.2	-	19.0	243.6	-	-	-	-	19.0	-	-	
Pension fund reserves.....	42.0	26.7	-	-	-	-	-	-	-	-	148.8	-	58.2	1,557.1	-	-	-	-	1,557.1	-	-	
Interbank claims.....	2,777.3	293.6	1,843.0	-	1,843.0	-	-	-	-	-	-	-	58.2	26.7	4.0	54.1	-	-	-	-	-	
Corporate equities <sup>2</sup> .....	8,224.1	8,224.1	1,566.9	5,267.6	1,016.5	2,376.1	189.0	2,350.8	361.3	40,752.2	1,800.4	6,033.8	1,109.4	191.2	-	1,916.6	109.0	3,266.8	369.8	559,2530.6		
Credit market instruments <sup>3</sup> .....	1,597.1	1,597.1	554.2	-	302.1	-	29.1	-	223.1	-	1,597.1	-	828.2	181.3	-	192.2	448.8	-	5.9	-		
U.S. Treasury securities <sup>4</sup> .....	628.8	628.8	211.1	-	146.3	-	1.6	-	63.2	-	3.2	-	417.7	625.6	9.9	74.7	332.0	-	-	-		
Federal agency securities <sup>5</sup> .....	720.3	720.3	326.7	-	312.0	-	4.9	-	9,851.5	-	-	-	393.6	-	-	214.9	179.3	-	-	-		
Tax-exempt securities.....	774.6	774.6	74.7	-	536.6	-	-	-	-	-	-	-	393.6	-	-	62.4	572.3	-	-	-		
Corporate and foreign bonds.....	2,251.5	2,251.5	220.6	2,249.1	155.3	1,497.1	-	-	65.4	-	53.2	-	1,197.7	2.3	-	423.0	1,027.2	2,352.7	-	-		
Mortgages.....	673.1	673.1	87.1	-	673.1	-	87.1	-	-	-	-	-	566.0	-	-	302.5	283.5	-	-	-		
Consumer credit.....	670.5	670.5	92.5	-	616.3	-	-	-	-	-	-	-	34.6	-	-	670.5	-	-	-	-		
Bank loans, n.e.c.....	362.1	362.1	18.5	-	26.2	-	66.3	-	92.0	-	-	-	216.6	187.8	-	15.3	46.4	201.2	141.4	-	-	
Open-market paper.....	704.0	602.0	612.6	-	18.5	41.1	92.0	-	-	-	-	-	79.8	57.2	-	44.8	35.0	57.2	-	-		
Securities.....	24.6	4.3	22.1	-	2.1	-	61.2	-	-	-	29.2	-	29.4	-	-	-	-	-	-	-		
Trade credit <sup>6</sup> .....	1,137.3	1,135.9	554.9	-	109.9	-	444.9	-	175.5	-	16.1	-	385.0	-	8.3	6.9	173.2	120.5	452.3	11.1	55.8	
Taxes payable.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Miscellaneous claims.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

- Represents zero. X Not applicable. <sup>2</sup> Less than \$50 million. <sup>3</sup> Includes "rest of world", not shown separately. <sup>4</sup> Assets shown at market value; nonbank finance liability is redemption value of shares of open-end investment companies. No specific liability attributed to issuers of stocks other than open-end investment companies for amounts outstanding. <sup>5</sup> Includes "Other loans," not shown separately. <sup>6</sup> Includes savings bonds and other nonmarketable debt held by public. <sup>7</sup> Issues by agencies in the budget and by sponsored credit agencies in financial sectors, issues backed by mortgage pools, and bank participation certificates. <sup>8</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables. Source: Board of Governors of the Federal Reserve System, *Annual Statistical Digest*.

### NO. 794. FLOW OF FUNDS ACCOUNTS—FINANCIAL ASSETS OF FINANCIAL AND NONFINANCIAL INSTITUTIONS, BY HOLDER SECTOR: 1970 TO 1985

[In billions of dollars. As of Dec. 31. See also *Historical Statistics, Colonial Times to 1970*, series X 192, X 229, X 821, and X 835]

SECTOR	1970	1975	1979	1980	1981	1982	1983	1984	1985
<b>All sectors.....</b>	<b>4,098.4</b>	<b>6,037.7</b>	<b>9,486.7</b>	<b>10,852.0</b>	<b>11,767.0</b>	<b>12,927.1</b>	<b>14,502.5</b>	<b>16,172.9</b>	<b>18,485.4</b>
Households.....	1,925.5	2,541.1	3,824.5	4,497.5	4,793.4	5,357.1	6,024.8	6,613.1	7,824.1
Nonfinancial business.....	415.8	616.7	971.9	1,082.9	1,156.9	1,187.6	1,319.7	1,415.9	1,490.9
Farm.....	10.8	14.8	22.2	24.2	26.1	27.9	29.5	31.4	32.6
Nonfarm noncorporate.....	35.4	44.2	61.0	64.3	69.9	75.5	80.5	91.5	101.6
Nonfinancial corporations.....	369.6	557.6	888.6	994.4	1,061.0	1,085.2	1,209.7	1,293.0	1,356.7
U.S. Government-sponsored credit agencies and mortgage pools.....	88.2	120.2	198.6	223.6	255.2	292.0	302.3	333.2	368.5
State and local government.....	51.5	122.1	260.6	309.3	361.8	433.8	502.2	587.8	694.6
Monetary authorities.....	71.7	122.6	198.7	215.0	226.7	254.9	300.6	359.0	491.0
Commercial banking <sup>1</sup> .....	86.1	124.8	166.7	173.8	182.0	194.4	203.9	218.5	243.4
Domestic commercial banks.....	504.9	834.6	1,276.8	1,389.5	1,522.6	1,609.5	1,757.9	2,019.1	2,202.3
Foreign banking offices in U.S.....	486.9	766.3	1,163.8	1,247.9	1,354.2	1,461.7	1,595.4	1,833.6	1,997.3
Nonbank finance.....	9.3	29.2	78.5	101.2	117.3	87.3	91.9	103.4	114.3
Savings and loan associations <sup>2</sup> .....	823.0	1,321.0	2,188.3	2,496.5	2,774.8	3,104.8	3,517.3	3,955.8	4,562.2
Life insurance.....	173.0	333.1	569.4	621.9	657.8	707.6	830.3	999.8	1,071.6
Other insurance.....	200.9	279.7	419.3	464.2	507.5	567.5	632.7	692.9	773.0
Private pension funds.....	49.9	77.3	154.9	174.3	185.6	202.8	225.3	240.0	268.6
Govt. retirement funds <sup>3</sup> .....	110.4	186.6	318.7	412.5	431.2	518.1	606.8	723.3	738.5
Finance companies.....	60.3	104.8	169.7	198.1	224.2	262.5	311.2	350.4	424.6
Money market funds.....	64.1	102.4	200.9	205.0	230.2	242.3	269.9	297.7	357.6
Mutual savings banks <sup>4</sup> .....	—	3.7	45.2	74.4	181.9	208.6	169.9	204.7	220.1
Investment companies.....	79.3	121.1	163.3	171.5	175.3	174.3	194.4	204.7	220.1
Credit unions.....	46.8	43.0	51.2	63.5	63.8	89.5	129.3	161.2	293.6
Security brokers, dealers.....	16.0	36.9	63.1	71.6	75.3	87.0	102.5	115.7	136.0
Real estate investment trusts.....	16.2	16.5	28.1	38.1	38.9	42.9	48.8	54.1	65.4
Rest of the world.....	3.9	14.0	5.5	9.3	3.2	3.5	3.5	5.6	5.8
Rest of the world.....	131.7	234.7	400.6	463.8	493.4	493.1	573.9	670.6	808.3

— Represents zero. <sup>1</sup> Includes other sectors not shown separately. <sup>2</sup> See footnote 3, table 796. <sup>3</sup> State and local. <sup>4</sup> See footnote 2, table 796.

Source: Board of Governors of the Federal Reserve System, *Annual Statistical Digest*.

### NO. 795. FLOW OF FUNDS ACCOUNTS—ASSETS AND LIABILITIES OF HOUSEHOLDS: 1970 TO 1985

[As of December 31. See also *Historical Statistics, Colonial Times to 1970*, series X 114-147]

TYPE OF INSTRUMENT	TOTAL (bil. dol.)							PERCENT DISTRIBUTION		
	1970	1975	1980	1982	1983	1984	1985	1970	1980	1985
<b>Total financial assets.....</b>	<b>1,925.5</b>	<b>2,541.1</b>	<b>4,497.5</b>	<b>5,357.1</b>	<b>6,024.8</b>	<b>6,613.1</b>	<b>7,624.1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Deposit and market instrument <sup>1</sup> .....	796.3	1,277.0	2,146.4	2,625.7	2,896.9	3,321.0	3,692.9	41.4	47.7	48.4
Checkable deposits and currency.....	118.2	170.4	263.9	311.7	350.8	373.8	418.9	6.1	5.9	5.5
Small time and savings deposits.....	408.9	719.6	1,140.2	1,323.8	1,536.8	1,689.2	1,828.9	21.2	25.4	24.0
Money market fund shares.....	—	3.7	74.4	206.6	162.5	209.7	207.5	—	1.7	2.7
Large time deposits.....	17.4	46.4	142.0	158.8	147.9	223.8	221.1	.9	3.2	2.9
Credit market instruments.....	251.6	336.9	525.9	624.8	699.0	824.5	1,016.5	13.1	11.7	13.3
U.S. Government securities.....	105.8	138.7	242.7	279.7	318.8	392.3	448.4	5.5	5.4	5.9
Treasury issues.....	84.9	126.2	190.6	227.2	263.6	311.1	302.1	4.4	4.2	4.0
Savings bonds.....	52.1	67.4	72.5	68.3	71.5	74.5	79.8	2.7	1.6	1.0
Other Treasury.....	32.8	58.9	118.1	158.9	192.1	236.6	222.3	1.7	2.6	2.9
Agency issues.....	20.9	12.5	52.1	52.4	55.2	81.1	146.3	1.1	1.2	1.9
Tax-exempt obligations.....	45.0	68.1	89.9	129.6	171.9	213.6	312.0	2.4	2.0	4.1
Corporate and foreign bonds.....	38.2	60.9	52.9	57.8	52.5	67.7	74.7	1.9	1.2	1.0
Mortgages.....	52.1	58.4	116.6	143.5	145.7	151.6	155.3	2.7	2.6	2.0
Open-market paper.....	11.7	10.9	23.8	14.2	10.1	—	26.2	.6	.5	.3
Corporate equities.....	728.6	646.9	1,188.5	1,275.4	1,458.6	1,493.0	1,843.0	37.8	26.4	24.2
Mutual fund shares.....	46.8	43.0	63.5	89.5	129.3	161.2	293.6	2.4	1.4	3.9
Other corporate equities.....	681.8	603.9	1,125.0	1,186.0	1,329.3	1,331.9	1,549.4	35.4	25.0	20.3
Life insurance reserves.....	130.7	166.5	216.4	232.8	240.8	246.0	253.8	6.8	4.8	3.3
Pension fund reserves <sup>2</sup> .....	239.2	405.6	859.0	1,121.5	1,316.4	1,435.3	1,705.9	12.4	19.1	22.4
Security credit.....	4.4	4.5	14.8	16.4	18.8	18.1	18.5	.2	.3	.2
Miscellaneous assets.....	26.3	40.6	72.4	85.3	93.3	99.7	109.9	1.4	1.6	1.4
<b>Total liabilities.....</b>	<b>501.1</b>	<b>794.7</b>	<b>1,507.9</b>	<b>1,722.4</b>	<b>1,920.6</b>	<b>2,156.9</b>	<b>2,459.1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Credit market instruments.....	480.2	765.5	1,450.6	1,655.3	1,842.8	2,081.4	2,376.1	95.8	96.2	96.6
Mortgages.....	309.2	494.7	976.0	1,100.9	1,213.6	1,345.5	1,497.1	61.7	64.7	60.9
Installment consumer credit.....	105.5	172.3	301.4	335.0	383.7	460.5	549.9	21.1	20.0	22.4
Other consumer credit.....	37.6	50.7	74.5	83.1	91.0	109.0	123.2	7.5	4.9	5.0
Tax-exempt debt.....	—	2.7	16.7	29.6	41.0	51.0	77.5	—	1.1	3.2
Bank loans, not elsewhere classified.....	8.9	15.7	27.9	39.5	36.9	38.0	41.0	1.4	1.8	1.7
Other loans.....	20.8	31.5	54.7	72.2	76.5	79.4	87.3	4.2	3.6	3.6
Security credit.....	10.4	12.1	27.2	29.3	27.7	34.6	41.1	2.1	1.8	1.7
Trade credit.....	5.3	9.4	17.2	22.2	24.0	25.8	28.0	1.1	1.1	1.1
Unpaid life insurance premiums <sup>3</sup> .....	5.1	7.7	12.9	15.5	16.1	15.1	13.9	1.0	.9	.6

— Represents zero. <sup>1</sup> Excludes corporate equities. <sup>2</sup> See also table 598. <sup>3</sup> Includes deferred premiums.

Source: Board of Governors of the Federal Reserve System, *Annual Statistical Digest*.

# **NO. 796. FLOW OF FUNDS ACCOUNTS—ASSETS AND LIABILITIES OF PRIVATE NONBANK FINANCIAL INSTITUTIONS, BY TYPE OF INSTRUMENT: 1985**

[In billions of dollars. As of Dec. 31. Preliminary. A=Assets; L=Liabilities; "N.e.c."=Not elsewhere classified; RP's=Repurchase agreements]

TYPE OF INSTRUMENT	TOTAL <sup>1</sup>		MUTUAL SAVINGS BANKS <sup>2</sup>		SAVINGS AND LOAN ASSOCIATIONS <sup>3</sup>		INSURANCE COMPANIES		PENSION FUNDS <sup>4</sup>		FINANCE COMPANIES		MONEY MARKET FUNDS	
	A	L	A	L	A	L	A	L	A	L	A	L	A	L
<b>Financial assets</b> .....	4,562.2	(x)	220.1	(x)	1,071.6	(x)	1,041.6	(x)	1,163.0	(x)	357.6	(x)	207.5	(x)
<b>Liabilities</b> .....	(x)	4,390.0	(x)	205.3	(x)	1,048.3	(x)	926.2	(x)	1,163.0	(x)	354.4	(x)	207.5
Checkable deposits.....	44.7	56.8	4.8	13.5	11.8	31.6	6.0	-	7.0	-	5.4	-	2	-
Time and savings accounts.....	87.6	1,105.8	2	174.7	12.1	816.2	-	-	43.0	-	-	-	16.8	-
Fed. funds, security RP's...	78.2	44.4	7.1	-	24.3	44.4	20.7	-	-	-	-	-	26.1	-
Money market fund shares.....	-	207.5	-	-	-	-	-	-	-	-	-	-	-	207.5
Foreign deposits.....	19.0	-	-	-	-	-	-	-	-	-	-	-	19.0	-
Reserves:														
Life insurance.....	-	243.6	-	-	-	-	-	243.6	-	-	-	-	-	-
Pension fund.....	-	1,557.1	-	-	-	-	-	394.1	-	1,163.0	-	-	-	-
Corporate equities.....	809.0	293.6	5.4	-	-	-	133.4	-	529.6	-	-	-	-	-
Credit market instruments.....	3,266.8	369.8	190.2	-	906.6	114.9	793.1	-	583.4	-	352.2	250.6	141.8	-
Securities:														
U.S. Treasury.....	448.8	-	8.8	-	39.8	-	76.8	-	209.6	-	-	-	42.7	-
Federal agency.....	332.0	-	24.5	-	128.5	-	62.7	-	109.4	-	-	-	-	-
Tax-exempt.....	179.3	-	2.2	-	.6	-	96.5	-	1.6	-	-	-	-	-
Corporate and foreign bonds.....	572.3	1,027.7	19.4	-	-	7.6	298.3	-	209.6	-	-	94.3	-	-
Mortgages.....	1,027.2	2.3	110.5	-	680.1	-	170.5	-	20.2	-	53.5	-	-	-
Consumer credit.....	293.5	-	13.4	-	45.0	-	-	-	-	-	146.0	-	-	-
Bank loans, n.e.c.....	-	34.6	-	-	-	18.5	-	-	-	-	-	15.6	-	-
Open market paper.....	201.2	141.4	11.5	-	17.0	-	34.0	-	33.0	-	-	140.7	99.1	-
Other loans.....	222.5	88.8	-	-	15.5	88.8	54.2	-	-	-	152.8	-	-	-
Security credit.....	35.0	57.2	-	-	-	-	-	-	-	-	-	-	-	-
Trade credit.....	29.4	-	-	-	-	-	29.4	-	-	-	-	-	-	-
Taxes payable.....	-	1.8	-	-	-	.1	-	.6	-	-	-	-	.1	-
Miscellaneous.....	192.4	452.3	12.4	17.0	116.8	41.2	59.0	269.9	-	-	-	103.7	3.6	-

- Represents zero or rounds to zero. X Not applicable. <sup>1</sup> Includes credit unions, open-end investment companies, real estate investment trusts, and security brokers and dealers not shown separately. <sup>2</sup> Includes Federal savings banks insured by Federal Deposit Insurance Corporation and a few insured by Federal Savings and Loan Insurance Corporation (FSLIC). <sup>3</sup> Includes most Federal savings banks that are insured by FSLIC. A few of them are included with mutual savings banks. <sup>4</sup> Retirement funds of State and local governments and private pension plans.

Source: Board of Governors of the Federal Reserve System, *Annual Statistical Digest*.

## **NO. 797. FLOW OF FUNDS ACCOUNTS—CREDIT MARKET DEBT OUTSTANDING: 1970 TO 1985**

[In billions of dollars. As of Dec. 31. "N.e.c."=Not elsewhere classified]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
<b>Credit market debt</b> .....	1,596.9	2,605.5	3,749.1	4,240.7	4,654.8	5,143.2	5,601.4	6,252.5	7,157.4	8,224.1
Government.....	450.0	666.5	888.2	943.2	1,039.6	1,133.8	1,321.0	1,545.2	1,788.9	2,141.1
Federal.....	300.8	446.3	626.2	663.6	742.8	830.1	991.4	1,177.9	1,376.8	1,600.4
State and local.....	149.2	220.2	262.0	279.8	296.9	303.6	329.6	367.2	412.2	540.7
Non-government.....	1,146.8	1,939.0	2,860.9	3,297.5	3,615.2	4,009.4	4,280.4	4,707.4	5,368.4	6,083.0
Financial <sup>1</sup> .....	114.1	239.9	380.6	464.1	521.8	610.8	693.7	783.1	921.0	1,109.4
Sponsored credit agencies <sup>2</sup> .....	38.9	80.3	112.2	137.0	162.6	195.0	210.4	211.8	242.2	262.8
Mortgage pools.....	4.8	28.5	70.4	94.8	114.0	129.0	178.5	244.9	289.0	367.8
Commercial banks <sup>3</sup> .....	5.5	19.5	35.4	42.1	49.2	57.4	64.1	76.5	96.9	109.0
Savings and loan associations.....	11.0	19.1	37.8	50.3	67.8	73.4	75.9	73.9	83.2	114.9
Finance companies.....	51.7	76.7	120.3	135.4	134.3	152.3	161.1	172.7	195.3	250.6
Foreign.....	50.6	91.2	161.9	182.4	209.6	236.9	226.3	245.2	247.3	246.8
Private domestic nonfinancial.....	982.1	1,607.9	2,318.5	2,650.9	2,883.9	3,161.7	3,360.4	3,679.0	4,200.1	4,726.8
Corporations <sup>1</sup> .....	355.0	548.5	741.1	835.5	914.2	1,018.4	1,091.1	1,147.5	1,339.8	1,495.8
Bonds.....	187.3	261.0	346.2	373.5	411.0	446.2	480.0	505.5	571.1	664.2
Mortgages.....	58.9	65.9	76.1	77.6	80.0	78.7	77.4	81.0	81.1	81.4
Bank loans, n.e.c.....	104.2	172.4	227.4	272.6	299.2	341.9	393.0	401.9	479.4	508.4
Finance company loans.....	14.0	31.9	65.3	75.4	80.8	90.2	92.3	102.4	127.3	145.2
Individuals.....	627.1	1,059.4	1,577.4	1,814.5	1,969.6	2,143.4	2,269.3	2,531.6	2,860.3	3,231.0
By sector:										
Households.....	480.2	765.5	1,165.2	1,341.7	1,450.6	1,573.8	1,655.3	1,842.8	2,081.4	2,376.1
Farm.....	47.4	82.0	121.0	144.6	159.8	176.4	183.2	187.3	187.2	180.3
Nonfarm noncorporate.....	99.5	211.9	291.2	328.2	359.3	393.2	430.7	501.5	591.7	674.6
By type of instrument:										
Mortgages.....	409.5	717.5	1,072.4	1,237.6	1,366.3	1,476.6	1,551.5	1,728.3	1,939.0	2,167.7
Consumer credit.....	143.1	222.9	337.7	383.1	375.9	398.5	418.1	474.7	569.5	673.1
Policy loans.....	17.0	25.5	31.2	35.9	42.6	50.0	54.2	55.2	55.6	55.3
Bank loans, n.e.c.....	29.4	45.3	57.1	61.3	71.8	83.5	95.9	103.8	106.2	107.9
Other loans.....	28.0	45.4	68.4	82.9	96.3	113.8	120.1	128.6	138.9	149.5
Tax-exempt debt.....	-	2.7	10.7	13.6	16.7	21.1	29.6	41.0	51.0	77.5

- Represents zero. <sup>1</sup> Includes other types, not shown separately. <sup>2</sup> U.S. Government. <sup>3</sup> Includes bank affiliates.

Source: Board of Governors of the Federal Reserve System, *Annual Statistical Digest*.

## NO. 798. OWNERSHIP OF PUBLIC DEBT SECURITIES BY PRIVATE INVESTORS: 1970 TO 1985

(As of December. Par values. Estimated)

INVESTOR	AMOUNT (bil. dol.)						PERCENT DISTRIBUTION					
	1970	1975	1980	1983	1984	1985	1970	1975	1980	1983	1984	1985
<b>Total privately held</b> .....	<b>229.1</b>	<b>349.4</b>	<b>616.4</b>	<b>1,022.6</b>	<b>1,212.5</b>	<b>1,431.3</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Commercial banks <sup>1</sup> .....	62.7	85.1	112.1	188.8	183.4	192.2	27.4	24.4	18.2	18.5	15.1	13.4
Nonbank investors .....	166.4	264.2	504.3	833.8	1,029.1	1,239.1	72.6	75.6	81.8	81.5	84.9	86.6
Individuals <sup>2</sup> .....	61.2	90.8	117.1	133.4	143.8	<sup>a</sup> 154.7	35.4	26.0	19.0	13.0	11.9	10.8
Insurance companies .....	7.4	9.5	24.0	56.7	76.4	<sup>a</sup> 93.2	3.2	2.7	3.9	5.5	6.3	6.5
Money market funds .....	(NA)	(NA)	3.5	22.8	25.9	25.1	(NA)	(NA)	.8	2.2	2.1	1.8
Corporations <sup>4</sup> .....	7.3	21.3	19.3	39.7	50.1	<sup>a</sup> 62.0	3.2	6.1	3.1	3.9	4.1	4.3
State and local governments .....	27.8	34.2	87.9	150.5	<sup>a</sup> 179.4	(NA)	12.1	9.8	14.3	14.7	14.8	(NA)
Foreign and international <sup>5</sup> .....	19.8	66.5	129.7	166.3	192.9	<sup>a</sup> 214.6	8.6	19.0	21.0	16.3	15.9	15.0
Other investors <sup>6</sup> .....	23.0	41.9	122.8	264.4	<sup>a</sup> 360.6	(NA)	10.0	12.0	19.9	25.9	29.7	(NA)

NA Not available. <sup>1</sup> Consists of commercial banks, trust companies, and stock savings banks in the United States and in territories and island possessions. Figures exclude securities held in trust departments. <sup>2</sup> Includes partnerships and personal trust accounts. <sup>3</sup> Preliminary. <sup>4</sup> Exclusive of banks and insurance companies. <sup>5</sup> Consists of the investment of foreign balances and international accounts in the United States. <sup>6</sup> Consists of savings and loan associations, credit unions, mutual savings banks, nonprofit institutions, money market funds (for 1970 and 1975), corporate pension trust funds, and dealers and brokers. Also included are certain government deposit accounts and government-sponsored agencies.

Source: U.S. Dept. of the Treasury, *Treasury Bulletin*, quarterly.

## NO. 799. FEDERALLY SPONSORED CREDIT AGENCIES—SELECTED BALANCE SHEET ITEMS: 1970 TO 1985

(in billions of dollars. As of Dec. 31. Assets and liabilities valued at par. Debt includes only publicly offered securities which are not guaranteed by U.S. Government. See *Historical Statistics, Colonial Times to 1970*, series N 300, for FHLB advances)

AGENCY AND ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>Federal National Mortgage Association:</b>											
Assets: Mortgage loans .....	15.5	31.8	34.4	43.2	50.8	57.3	59.8	69.7	75.7	84.8	95.0
Liabilities: Notes, bonds, and debentures .....	15.2	30.0	31.9	41.1	48.5	55.2	58.7	69.6	74.6	83.7	93.9
<b>Federal Home Loan Banks (FHLB):</b>											
Assets: Advances to members .....	10.6	17.8	20.2	32.7	41.8	49.0	65.2	66.0	59.0	74.6	88.8
Liabilities: Notes and bonds .....	10.2	18.9	18.3	27.6	33.3	41.3	58.1	58.0	48.9	65.1	74.5
<b>Farm credit banks:</b>											
Liabilities: Notes, bonds, and debentures .....	13.0	27.9	37.3	41.8	52.5	62.9	71.4	73.0	72.8	72.2	88.9
<b>Federal Home Loan Mortgage Corporation:</b>											
Liabilities: Notes, bonds, and debentures <sup>1</sup> .....	.3	1.6	1.7	2.3	2.8	2.5	2.6	4.5	6.8	10.2	11.8

<sup>1</sup> Includes collateralized mortgage obligations.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

## NO. 800. SELECTED FINANCIAL INSTITUTIONS—NUMBER AND ASSETS, BY ASSET SIZE: 1985

(As of December)

ASSET SIZE	NUMBER OF INSTITUTIONS				ASSETS (bil. dol.)			
	F.D.I.C.-insured commercial banks <sup>1</sup>	F.S.L.I.C.-insured savings institutions <sup>2</sup>	Mutual savings banks <sup>1 a</sup>	Credit unions <sup>4</sup>	F.D.I.C.-insured commercial banks <sup>1 b</sup>	F.S.L.I.C.-insured savings institutions <sup>2</sup>	Mutual savings banks <sup>1 a</sup>	Credit unions <sup>4</sup>
<b>Total</b> .....	<b>14,405</b>	<b>3,246</b>	<b>364</b>	<b>15,045</b>	<b>2,327.0</b>	<b>1,069.4</b>	<b>157.4</b>	<b>119.7</b>
Less than \$5.0 million .....	282			11,396	1.0			14.1
\$5.0 million-\$9.9 million .....	1,029	457	3	1,411	8.0	7.1	(2)	10.0
\$10.0 million-\$24.9 million .....	3,929		3	1,279	67.1		.2	20.0
\$25.0 million-\$49.9 million .....	3,744	554	19	483	134.6	20.2	.8	16.8
\$50.0 million-\$99.9 million .....	2,810	714	77	296	194.8	50.7	5.9	19.5
\$100.0 million-\$499.9 million .....	2,093	1,122	190	181	400.9	241.7	43.0	31.4
\$500.0 million or more .....	518	399	66	9	1,520.6	749.6	107.5	7.9
<b>PERCENT DISTRIBUTION</b>								
<b>Total</b> .....	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Less than \$5.0 million .....	2.0			75.7	(2)			11.8
\$5.0 million-\$9.9 million .....	7.2	14.1	.8	9.4	.4	.7	(2)	8.4
\$10.0 million-\$24.9 million .....	27.3		2.5	8.5	2.9		.1	16.7
\$25.0 million-\$49.9 million .....	26.0	17.1	5.2	3.2	5.8	1.9	.5	14.0
\$50.0 million-\$99.9 million .....	19.5	22.0	21.2	1.9	8.4	4.7	3.8	16.3
\$100.0 million-\$499.9 million .....	14.5	34.6	52.2	1.2	17.2	22.6	27.3	26.2
\$500.0 million or more .....	3.6	12.2	18.1	.1	65.3	70.2	68.3	6.6

- Represents zero. Z Less than \$50 million or .05 percent. <sup>1</sup> Source: U.S. Federal Deposit Insurance Corporation (F.D.I.C.), unpublished data. <sup>2</sup> Source: U.S. League of Savings Institutions, Washington, DC, *Savings Institutions Sourcebook*, annual. F.S.L.I.C.—Federal Savings and Loan Insurance Corporation. <sup>3</sup> Excludes federally chartered mutual savings banks. <sup>4</sup> Source: National Credit Union Administration, *National Credit Union Administration Yearend Statistics 1985*. Excludes nonfederally insured State chartered credit unions and federally insured corporate credit unions. <sup>5</sup> Represents domestic assets only.

Source: Compiled from sources listed in footnotes.

## NO. 801. DOMESTIC DEPOSIT MARKET SHARES, BY TYPE OF INSTITUTION—STATES: 1985

[As of Dec. 31, except FSLIC-insured savings institutions, as of June 30]

REGION, DIVISION AND STATE	Total (mil. dol.)	PERCENT DISTRIBUTION				DIVISION AND STATE	Total (mil. dol.)	PERCENT DISTRIBUTION			
		F.D.I.C.- insured commercial banks <sup>1</sup>	F.S.L.I.C.- insured savings institutions <sup>2</sup>	Mutual savings banks <sup>3</sup>	Credit unions <sup>4</sup>			F.D.I.C.- insured commercial banks <sup>1</sup>	F.S.L.I.C.- insured savings institutions <sup>2</sup>	Mutual savings banks <sup>3</sup>	Credit unions <sup>4</sup>
U.S.....	2,905,319	61.6	27.8	6.4	4.3	S.A.....	405,322	60.4	33.8	.5	5.3
Region:						DE.....	13,012	87.5	2.2	8.3	2.0
Northeast.....	779,415	59.0	15.3	23.0	2.9	MD.....	40,698	60.3	30.9	2.6	6.1
Midwest.....	665,844	66.5	29.1	(z)	4.4	DC.....	15,302	66.6	25.3	-	8.1
South.....	863,133	65.2	29.9	.2	4.7	VA.....	55,050	63.1	27.0	-	9.9
West.....	596,927	54.1	39.7	.8	5.5	WV.....	14,343	83.2	13.5	-	3.3
N.E.....	173,109	50.6	8.4	36.4	5.7	NC.....	48,439	67.4	27.3	-	5.3
ME.....	9,614	45.4	7.0	39.1	8.5	SC.....	20,537	56.4	37.8	-	5.7
NH.....	11,723	48.4	13.2	33.0	5.4	GA.....	49,583	69.3	25.7	-	5.0
VT.....	4,949	72.9	5.9	16.7	4.6	FL.....	148,357	49.5	46.9	-	3.7
MA.....	83,567	54.6	5.5	39.8	6.1	E.S.C.....	119,292	74.0	20.8	-	5.2
RI.....	12,351	52.6	18.4	20.0	9.0	KY.....	31,313	76.3	20.8	-	2.8
CT.....	50,905	40.7	10.1	45.5	3.7	TN.....	40,662	72.1	21.2	-	6.6
M.A.....	606,305	61.4	17.3	19.2	2.1	AL.....	29,000	71.3	21.7	-	7.0
NY.....	362,971	63.2	10.7	24.4	1.7	MS.....	18,317	78.5	18.7	-	2.8
NJ.....	99,416	50.3	36.6	10.9	2.2	W.S.C.....	338,519	67.8	28.4	-	3.8
PA.....	143,918	64.5	20.7	11.9	2.9	AR.....	22,330	66.9	31.9	-	1.3
E.N.C.....	453,375	64.7	30.4	(z)	4.8	LA.....	45,555	68.8	28.3	-	2.9
OH.....	109,398	57.8	38.5	-	3.8	OK.....	37,232	73.3	21.9	-	4.8
IN.....	52,168	73.1	20.7	-	6.2	TX.....	233,402	66.6	29.1	-	4.0
IL.....	160,095	64.3	32.5	-	3.2	MT.....	124,365	63.7	29.7	-	6.6
MI.....	84,507	68.4	23.6	-	7.9	ND.....	7,986	76.9	16.5	-	6.6
WI.....	47,206	66.2	28.0	.2	5.7	ID.....	7,688	77.6	17.1	-	5.3
W.N.C.....	212,469	70.5	26.1	-	3.4	WY.....	5,515	73.4	23.0	-	3.6
MN.....	49,067	74.9	21.2	-	3.8	CO.....	36,416	57.8	35.8	-	6.4
IA.....	33,527	74.2	22.6	-	3.2	NM.....	12,587	64.4	29.4	-	6.2
MO.....	59,830	66.1	30.5	-	3.4	AZ.....	34,012	61.3	33.9	-	4.7
ND.....	8,783	68.4	27.5	-	4.2	UT.....	12,095	68.2	17.9	-	13.8
SD.....	9,619	84.4	13.2	-	2.4	NV.....	8,086	59.7	32.0	-	8.3
NE.....	19,885	69.1	27.7	-	3.1	Pac.....	472,563	51.5	42.3	1.0	5.2
KS.....	31,758	65.0	31.5	-	3.4	WA.....	42,464	56.2	25.0	11.0	7.9
						OR.....	22,944	57.1	36.0	-	6.8
						CA.....	388,539	50.1	45.5	-	4.4
						AK.....	5,376	72.5	7.6	1.7	18.2
						HI.....	13,241	60.1	29.4	-	10.5

- Represents zero. Z Less than .05 percent. <sup>1</sup> Source: U.S. Federal Deposit Insurance Corporation (F.D.I.C.), unpublished data. <sup>2</sup> Source: U.S. Federal Home Loan Bank Board, *Summary of Savings Accounts by Geographic Areas*, annual. F.S.L.I.C.—Federal Savings and Loan Insurance Corporation. <sup>3</sup> Source: National Council of Savings Institutions, Washington, DC, 1986 *National Fact Book of Savings Institutions*. Preliminary. <sup>4</sup> Source: Credit Union National Association, Inc., Madison, WI, *Credit Union Report*, annual. Preliminary estimates based on projections from 16,000 reporting credit unions.

Source: Compiled by U.S. Bureau of the Census from sources listed in footnotes.

## NO. 802. BANKS, BANKING OFFICES, AND DEPOSITS, BY INSURANCE STATUS AND CLASS OF BANK: 1984

[As of June 30]

INSURANCE STATUS AND CLASS OF BANK	Banks (number)	Bank- ing offices (num- ber)	DEPOSITS (mil. dol.)				
			Total <sup>1</sup>	Individuals, partnerships and corporations			Govern- ment
				Total	Trans- action ac- counts <sup>2</sup>	Non- transac- tion accounts	
Total.....	15,175	59,176	1,694,393	1,532,453	410,333	1,122,120	89,652
F.D.I.C.-insured banks <sup>3</sup> .....	14,797	58,541	1,686,805	1,525,174	408,639	1,116,535	89,649
Commercial banks.....	14,665	55,728	1,532,094	1,370,522	398,615	970,907	89,639
National banks.....	4,824	26,545	884,569	776,196	227,714	549,482	46,881
State (Federal Reserve, member bank).....	1,058	5,901	212,675	181,832	59,926	121,906	10,143
State (non-Federal Reserve member).....	8,583	23,280	454,849	412,492	111,974	300,518	33,014
Mutual savings banks.....	294	2,777	154,710	154,651	9,024	145,627	9
Domestic branches of foreign banks.....	38	38	-	-	-	-	3
Noninsured banks.....	378	635	7,588	7,278	1,693	5,585	3
Commercial banks.....	43	66	411	230	131	99	3
Mutual savings banks.....	98	332	7,177	7,047	1,562	5,485	-
Domestic branches of foreign banks.....	237	237	-	-	-	-	-

- Represents zero. <sup>1</sup> Includes other types of deposits, not shown separately. <sup>2</sup> A transaction account is a deposit or account on which the depositor or account holder is permitted to make withdrawals by negotiable or transferable instrument, payment orders of withdrawal, telephone transfers, or other similar devices for the purpose of making payments or transfers to others. <sup>3</sup> F.D.I.C.—Federal Deposit Insurance Corporation.

Source: U.S. Federal Deposit Insurance Corporation, *Data Book, Operating Banks and Branches, June 30, 1984*, vol. 1.

### NO. 803. BANKING OFFICES, BY DEPOSIT INSURANCE STATUS: 1970 TO 1985

[As of December 31. Includes Puerto Rico and outlying areas. Beginning 1982 excludes automatic teller machines that were previously being reported by many banks as branches. See also *Historical Statistics, Colonial Times to 1970*, series X 716-724]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
<b>All banking offices.....</b>	<b>37,166</b>	<b>47,239</b>	<b>52,608</b>	<b>54,926</b>	<b>57,232</b>	<b>59,348</b>	<b>57,913</b>	<b>59,050</b>	<b>60,067</b>	<b>61,604</b>
Commercial banks, total.....	35,585	44,917	49,602	51,588	53,649	55,749	54,829	55,960	57,010	58,399
Member, Federal Reserve System.....	21,989	26,526	28,456	29,169	29,985	31,414	30,921	31,946	32,809	33,819
National banks.....	17,191	21,073	22,731	23,307	24,217	25,221	24,867	26,080	27,037	27,797
State banks.....	4,798	5,453	5,725	5,856	5,768	6,193	6,054	5,866	5,772	6,021
Nonmember banks.....	13,596	18,391	21,146	22,425	23,664	24,335	23,908	24,014	24,201	24,571
Insured.....	13,332	18,043	20,730	21,993	23,186	23,788	23,314	23,380	23,535	23,881
Noninsured.....	264	348	416	432	478	547	594	634	666	690
Mutual savings banks, total.....	1,581	2,322	3,006	3,338	3,583	3,599	3,084	3,090	3,057	3,215
Insured.....	1,223	1,897	2,517	2,840	3,066	3,217	2,733	2,760	2,728	3,127
Noninsured.....	358	425	489	498	517	382	351	330	329	88

Source: U.S. Federal Deposit Insurance Corporation, *Annual Report*, and unpublished data.

### NO. 804. CHANGES IN NUMBER OF OPERATING BANKING OFFICES: 1970 TO 1985

[As of December 31. Includes Puerto Rico and outlying areas. Minus sign (—) indicates decrease]

TYPE OF CHANGE	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
<b>Banking offices<sup>1</sup>.....</b>	<b>37,166</b>	<b>47,239</b>	<b>52,608</b>	<b>54,926</b>	<b>57,232</b>	<b>59,348</b>	<b>57,913</b>	<b>59,050</b>	<b>60,067</b>	<b>61,604</b>
Number of banks.....	14,199	15,130	15,206	15,201	15,330	15,355	15,412	15,440	15,489	15,462
Number of branches <sup>1</sup> .....	22,967	32,109	37,402	39,725	41,902	43,993	42,501	43,610	44,578	46,152
<b>Net change during year.....</b>	<b>1,584</b>	<b>1,931</b>	<b>1,909</b>	<b>2,318</b>	<b>2,306</b>	<b>2,116</b>	<b>-1,435</b>	<b>1,137</b>	<b>1,017</b>	<b>1,537</b>
Offices opened.....	1,854	2,224	2,426	2,891	2,800	2,901	2,387	2,119	2,338	2,719
Banks.....	186	277	164	239	271	265	379	432	486	436
Branches.....	1,678	1,947	2,242	2,652	2,529	2,636	2,008	1,687	1,852	2,284
Offices closed.....	280	293	517	573	494	785	3,822	982	1,321	1,182
Banks.....	165	108	165	244	142	240	322	404	427	472
Branches.....	115	185	352	329	352	545	* 3,500	578	894	710

<sup>1</sup> See headnote, table 803. \* Includes 3,000 automatic teller machines that were previously reported as branches. Source: U.S. Federal Deposit Insurance Corporation, *Annual Report*, and unpublished data.

### NO. 805. FEDERAL RESERVE MEMBER BANKS—REVENUE AND EXPENSES: 1970 TO 1985

[Includes one member bank in the Virgin Islands]

ITEM	Unit	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>Member banks.....</b>	<b>Number.....</b>	<b>5,789</b>	<b>5,790</b>	<b>5,669</b>	<b>5,564</b>	<b>5,425</b>	<b>5,422</b>	<b>5,474</b>	<b>5,619</b>	<b>5,807</b>	<b>5,961</b>	<b>6,031</b>
Current revenue.....	Bil. dol.....	27.9	51.4	70.5	89.1	118.9	150.6	196.6	202.3	185.8	215.6	216.6
Expenses.....	Bil. dol.....	22.2	44.4	61.7	77.8	105.8	136.5	181.9	188.4	171.8	200.9	199.9
Net current earnings.....	Bil. dol.....	5.7	7.0	8.8	11.3	13.1	14.2	14.7	13.9	14.0	14.7	17.8
Net income.....	Bil. dol.....	3.8	5.5	6.6	7.8	9.2	9.9	10.6	10.7	10.8	11.2	13.7
Cash dividends declared.....	Bil. dol.....	1.6	2.5	2.8	2.9	3.5	3.9	4.4	4.9	5.5	5.7	8.3
Capital accounts <sup>1</sup> .....	Bil. dol.....	33.0	50.0	56.6	61.5	67.1	73.7	80.9	88.7	96.7	106.6	117.6
Ratios to avg. capital accounts:												
Net current earnings.....	Percent.....	17.4	13.9	15.6	18.4	19.5	19.2	18.2	15.7	14.5	13.8	15.1
Net income.....	Percent.....	11.6	11.1	11.7	12.8	13.7	13.4	13.1	12.1	11.2	10.5	11.6
Cash dividends declared.....	Percent.....	5.3	5.0	4.8	4.8	5.2	5.3	5.5	5.5	5.7	5.3	5.4

<sup>1</sup> Averages of amounts reported for varying call dates; for details, see source.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

### NO. 806. BANK HOLDING COMPANIES—OFFICES, ASSETS, AND DEPOSITS: 1970 TO 1985

[As of Dec. 31. A "bank holding company" means any company which has control over any bank or over any company that is, or becomes, a bank holding company by virtue of the Bank Holding Company Act and its amendments. Represents domestic data only]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
<b>Number of companies.....</b>	<b>121</b>	<b>1,821</b>	<b>2,222</b>	<b>2,478</b>	<b>2,905</b>	<b>3,500</b>	<b>4,285</b>	<b>5,399</b>	<b>5,702</b>	<b>5,946</b>
Banking offices.....	4,155	22,056	25,814	27,099	29,924	33,733	37,068	41,349	44,670	47,618
Banks.....	895	3,674	4,101	4,280	4,854	5,689	6,731	7,835	8,840	9,266
Branches.....	3,260	18,382	21,513	22,819	24,970	28,044	30,337	33,514	35,830	38,362
<b>Assets (bil. dol.).....</b>	<b>92.9</b>	<b>661.3</b>	<b>905.0</b>	<b>1,004.7</b>	<b>1,134.4</b>	<b>1,296.7</b>	<b>1,537.9</b>	<b>2,019.8</b>	<b>2,151.9</b>	<b>2,385.2</b>
Percent of all commercial banks.....	16.1	68.5	68.7	70.6	74.1	77.3	82.6	86.0	89.4	91.0
Deposits (bil. dol.).....	78.1	527.5	691.1	744.7	840.6	938.7	1,113.7	1,527.2	1,637.3	1,786.3

Source: Board of Governors of the Federal Reserve System, *Banking and Monetary Statistics, 1941-1970; Annual Statistical Digest*; and unpublished data.

## No. 807. COMMERCIAL BANKS—DOMESTIC ASSETS AND DEPOSITS, STATES AND OTHER AREAS: 1985

[In millions of dollars, except as indicated. As of December 31. Excludes foreign branches of U.S. banks]

STATE OR OTHER AREA	ALL COMMERCIAL BANKS <sup>1</sup>					INSURED COMMERCIAL BANKS					
	Assets		Deposits			Assets			Deposits		
	Total	Percent held by multi-bank holding companies	Total	Per capita <sup>2</sup> (dol.)	Percent held by multi-bank holding companies	Total <sup>3</sup>	Gross loans			Total <sup>3</sup>	Time and savings
							Total <sup>3</sup>	Commercial and Industrial	Real estate		
Total.....	(NA)	(NA)	(NA)	(NA)	(NA)	2,327,041	1,368,253	447,370	425,244	1,796,153	1,345,215
U.S.....	2,365,210	66.8	1,786,340	7,482	62.7	2,316,257	1,363,744	446,108	424,077	1,787,237	1,337,967
AL.....	25,987	68.8	20,671	5,141	65.8	25,987	14,289	3,980	4,410	20,671	15,787
AK.....	4,908	23.8	3,895	7,476	24.3	4,902	3,181	1,155	1,394	3,895	2,950
AZ.....	24,522	24.8	20,865	6,547	24.5	24,468	16,525	4,674	6,274	20,865	15,642
AR.....	17,201	37.9	14,932	6,330	36.3	17,198	9,199	2,609	3,672	14,832	12,329
CA.....	241,349	61.0	193,466	7,338	58.8	239,111	159,628	49,133	61,895	194,677	140,228
CO.....	25,255	75.8	21,007	6,502	74.1	25,280	14,701	4,798	4,945	21,047	15,202
CT.....	25,491	77.7	20,742	6,535	76.2	25,125	15,937	5,279	5,609	20,742	14,139
DE.....	27,405	81.4	11,390	18,312	59.9	27,300	22,272	5,782	2,694	11,390	9,921
DC.....	12,790	18.1	10,187	16,273	18.0	11,898	7,440	2,318	2,718	10,187	7,307
FL.....	86,869	76.6	73,366	6,455	75.0	86,643	50,723	11,786	21,858	73,369	56,052
GA.....	46,165	76.7	34,373	5,752	73.0	45,405	26,383	7,962	7,669	34,373	24,108
HI.....	9,207	5.7	7,959	7,551	6.1	8,259	5,134	1,354	2,426	7,959	6,439
ID.....	7,210	83.1	5,966	9,936	81.9	7,210	4,459	1,345	1,109	5,966	4,993
IL.....	138,152	67.4	102,923	8,923	61.5	137,402	77,067	30,718	19,467	102,923	78,096
IN.....	45,451	26.6	38,151	6,938	24.7	44,890	24,331	6,089	8,587	38,151	30,879
IA.....	28,994	41.0	24,864	8,621	40.4	29,021	13,257	2,930	3,898	24,890	21,051
KS.....	23,819	22.8	20,658	6,432	21.5	23,819	12,381	3,793	3,359	20,658	17,132
KY.....	29,764	48.1	23,884	6,410	44.6	29,739	16,122	4,515	5,403	23,684	18,791
LA.....	36,762	43.8	31,335	6,993	41.9	36,712	20,470	6,722	7,282	31,335	24,594
ME.....	5,194	85.3	4,368	3,753	84.4	5,194	3,277	1,008	1,156	4,368	3,419
MD.....	32,189	34.2	24,559	5,592	33.6	31,775	18,247	4,869	6,167	24,559	18,045
MA.....	60,148	72.7	45,637	7,839	71.7	59,046	36,146	14,497	11,549	45,637	31,857
MI.....	70,480	85.0	57,784	6,356	83.2	69,365	40,073	13,476	13,028	57,829	46,228
MN.....	49,363	70.4	36,771	8,770	64.8	49,249	28,078	10,018	7,226	36,771	28,937
MS.....	17,048	-	14,377	5,502	-	17,028	8,686	1,984	3,178	14,377	11,511
MO.....	48,544	73.3	39,565	7,867	70.9	48,321	25,412	6,833	9,250	39,565	29,908
MT.....	7,187	68.3	6,139	7,432	67.0	7,185	3,931	1,311	949	6,139	5,117
NE.....	16,197	40.1	13,750	8,562	37.2	16,197	8,134	1,930	1,508	13,750	11,025
NV.....	7,567	64.6	4,829	5,159	54.2	7,567	5,215	987	1,500	4,829	3,421
NH.....	6,517	88.0	5,673	5,684	85.2	6,517	4,343	1,037	2,043	5,673	4,709
NJ.....	59,301	65.8	50,004	6,613	64.6	59,161	35,243	11,004	13,668	50,004	35,528
NM.....	9,376	55.4	8,092	5,581	56.4	9,376	5,422	1,852	1,814	8,092	6,559
NY.....	386,990	87.9	229,914	12,929	85.4	381,896	192,166	76,913	38,841	229,483	143,088
NC.....	46,634	69.3	32,642	5,219	61.8	46,529	27,592	8,877	8,427	32,642	24,550
ND.....	6,859	45.5	6,005	8,766	45.4	6,856	3,381	928	866	6,005	5,112
OH.....	80,954	64.0	63,247	5,887	63.0	79,206	46,404	12,838	13,663	63,190	50,495
OK.....	31,950	41.4	27,287	8,268	39.3	31,952	17,360	5,841	5,792	27,287	21,887
OR.....	17,628	81.0	13,104	4,877	77.3	17,329	10,540	3,911	3,056	13,104	10,434
PA.....	127,388	67.9	92,780	7,825	63.4	125,528	74,744	26,645	17,793	92,760	73,133
RI.....	6,577	87.7	6,502	6,717	84.1	6,577	5,778	1,970	2,135	6,502	5,147
SC.....	14,716	4.5	11,587	3,462	4.9	14,626	8,237	2,194	2,392	11,587	8,340
SD.....	16,047	83.0	8,121	11,470	70.2	16,045	12,596	1,034	727	8,121	7,259
TN.....	35,636	48.7	29,334	6,160	46.8	35,152	19,577	5,406	6,348	29,334	23,081
TX.....	199,296	75.1	155,986	9,529	71.7	198,948	121,378	47,229	44,131	155,986	120,210
UT.....	10,117	70.9	8,251	5,016	69.9	10,100	6,381	1,734	2,590	8,251	6,384
VT.....	4,001	38.3	3,607	6,742	38.5	4,001	2,830	731	1,448	3,607	3,025
VA.....	43,422	53.1	34,757	6,091	52.5	43,270	28,416	7,284	9,049	34,757	27,424
WA.....	29,889	78.4	23,850	5,409	78.4	29,482	20,245	6,817	6,274	23,850	18,141
WV.....	13,937	47.3	11,936	6,165	46.2	13,937	6,947	1,229	3,068	11,936	10,061
WI.....	37,222	64.1	31,239	8,542	62.3	37,197	21,207	5,965	8,585	31,260	24,931
WY.....	4,444	63.7	4,049	7,855	63.5	4,444	2,224	804	688	4,049	3,361
AM <sup>4</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	23	14	7	-	20	15
PR.....	(NA)	(NA)	(NA)	(NA)	(NA)	10,530	4,373	1,192	1,151	8,695	7,072
GU <sup>4</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	231	122	63	16	201	161

- Represents zero. NA Not available. <sup>1</sup> Source: Board of Governors of the Federal Reserve System, *Annual Statistical Digest*. Data reflect revisions submitted by banks after original filing date. <sup>2</sup> Based on U.S. Bureau of the Census resident population estimates as of July 1. <sup>3</sup> Includes other items not shown separately. <sup>4</sup> Consists of data for one insured commercial bank chartered in the outlying area.

Source: Except as noted, U.S. Federal Deposit Insurance Corporation, unpublished data.

## No. 808. INSURED COMMERCIAL BANKS—ASSETS AND LIABILITIES: 1975 TO 1985

[In billions of dollars, except number of banks. As of Dec. 31. Includes outlying areas. Excludes noninsured banks and nondeposit trust companies. 1975 includes American branches of foreign banks. Except as noted, includes foreign branches of U.S. banks. See *Historical Statistics, Colonial Times to 1970*, series X 588-609, for related data]

ITEM	1975	1976	1979	1980	1981	1982	1983	1984	1985
Number of banks.....	14,384	14,391	14,364	14,434	14,414	14,452	14,465	14,481	14,405
<b>Assets</b> .....	<b>1,095.4</b>	<b>1,508.3</b>	<b>1,692.1</b>	<b>1,855.7</b>	<b>2,029.1</b>	<b>2,194.3</b>	<b>2,342.1</b>	<b>2,508.6</b>	<b>2,731.0</b>
Securities, total <sup>1</sup> .....	231.5	278.4	293.9	334.4	352.1	366.0	441.3	385.8	439.6
U.S. Treasury, direct obligations.....	81.0	89.8	88.4	104.5	103.7	118.7	168.1	108.2	118.3
Obligations of States and subdivisions <sup>2</sup> .....	100.9	123.6	132.8	146.3	151.5	155.2	158.4	120.9	160.6
Federal funds sold and securities purchased <sup>3</sup> .....	37.0	49.0	61.3	70.3	91.2	103.9	93.5	110.8	133.2
<b>Net loans and leases <sup>4</sup>.....</b>	<b>590.1</b>	<b>833.0</b>	<b>935.6</b>	<b>1,006.4</b>	<b>1,120.2</b>	<b>1,211.6</b>	<b>1,301.3</b>	<b>1,489.7</b>	<b>1,607.8</b>
Commercial and industrial loans.....	(NA)	308.6	351.1	391.0	454.6	504.4	524.8	585.0	577.7
Real estate loans.....	(NA)	217.1	249.3	269.1	291.4	308.0	336.8	385.6	438.5
Loans to depository institutions <sup>5</sup> .....	(NA)	65.4	69.5	81.2	94.7	106.9	109.2	72.3	68.0
Loans to farmers (excl. real estate).....	(NA)	28.6	31.4	32.3	33.7	37.0	39.9	40.7	36.1
Other loans to individuals.....	(NA)	171.8	192.7	187.4	193.0	199.2	224.8	265.9	308.0
All other loans <sup>2</sup> .....	(NA)	59.1	60.8	62.6	69.4	73.1	83.6	178.6	195.1
Lease financing receivables.....	(NA)	9.1	11.8	14.0	15.9	16.7	17.1	20.2	24.3
Cash, balances with banks, etc.....	189.4	274.1	306.6	331.9	327.4	334.3	341.9	323.5	303.4
Other.....	47.4	75.9	94.7	112.6	138.2	158.5	164.2	198.9	247.0
<b>Liabilities and equity capital.....</b>	<b>1,095.4</b>	<b>1,508.3</b>	<b>1,692.1</b>	<b>1,855.7</b>	<b>2,029.1</b>	<b>2,194.3</b>	<b>2,342.1</b>	<b>2,508.6</b>	<b>2,731.0</b>
Deposits.....	915.9	1,233.7	1,363.1	1,481.2	1,588.8	1,706.5	1,842.5	1,962.6	2,117.5
Demand <sup>7</sup> .....	(NA)	384.0	414.8	415.1	369.2	354.2	370.6	421.6	459.8
Time and savings <sup>7</sup> .....	(NA)	613.5	659.8	755.6	885.1	1,028.1	1,140.9	1,223.4	1,335.9
Deposits in foreign offices.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	317.6	321.8
Individuals, partnerships and corporations <sup>7</sup> .....	(NA)	839.0	914.5	1,007.8	1,103.9	1,214.9	1,353.6	1,466.8	1,593.5
Government <sup>7</sup> .....	(NA)	88.1	86.5	84.2	85.3	90.0	86.7	95.5	107.5
Domestic interbank, foreign government, and other banks in foreign countries <sup>7</sup> <sup>10</sup> .....	(NA)	69.5	72.8	77.7	64.2	77.5	70.8	55.6	64.0
Miscellaneous liabilities.....	101.6	181.0	225.5	260.4	315.4	351.5	352.0	381.4	415.3
Subordinated notes and debentures.....	4.4	6.2	6.3	6.5	6.5	7.3	7.1	10.2	14.7
Limited-life preferred stock.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	14.0
Equity capital.....	64.3	87.4	97.2	107.6	118.3	128.9	140.5	154.3	169.5

NA Not available. <sup>1</sup> Book value. Includes other categories not shown separately. <sup>2</sup> Beginning 1984, nonrated industrial development and other obligations of States and political subdivisions are included under all other loans. <sup>3</sup> Under agreements to resell. <sup>4</sup> Excludes allowance for loan and lease losses and unearned income. <sup>5</sup> Includes loans to foreign banks.

<sup>6</sup> Includes reserves on loans and securities, not shown separately. <sup>7</sup> Represents deposits in domestic offices only. <sup>8</sup> Beginning 1984, noninterest bearing deposits. <sup>9</sup> Beginning 1984, interest bearing deposits. <sup>10</sup> Includes official institutions in foreign countries.

Source: U.S. Federal Deposit Insurance Corporation, *Assets and Liabilities: Commercial and Mutual Savings Banks*, semiannual; beginning 1978, *Annual Report*; and unpublished data.

## No. 809. INSURED COMMERCIAL BANKS—SELECTED MEASURES OF FINANCIAL CONDITION: 1975 TO 1985

[As of December 31]

ITEM	Unit	1975	1978	1979	1980	1981	1982	1983	1984	1985
Number of banks.....	Number.....	14,384	14,391	14,364	14,434	14,414	14,452	14,465	14,481	14,405
Equity and debt capital.....	Bl. dol.....	70.3	83.6	103.3	114.1	124.8	136.2	147.6	164.5	<sup>1</sup> 188.2
Equity capital to total assets.....	Percent.....	6.1	5.8	5.7	5.8	5.8	5.9	6.0	6.2	6.7
Equity capital to total deposits.....	Percent.....	8.5	7.1	7.1	7.3	7.4	7.6	7.6	7.9	8.7
Debt capital to total capital.....	Percent.....	6.3	6.6	6.1	5.7	5.2	5.4	5.0	6.6	7.4
Total capital to total assets.....	Percent.....	6.5	6.2	6.1	6.2	6.2	6.2	6.3	6.6	7.3
Total capital to total liabilities.....	Percent.....	6.9	6.6	6.5	6.6	6.5	6.6	6.7	7.0	7.9
Total capital to risk assets <sup>2</sup> .....	Percent.....	9.0	8.5	8.3	8.4	8.2	8.2	8.4	8.5	9.7
Total loans, excluding Federal funds.....	Bl. dol.....	579.4	828.5	891.2	1,002.5	1,115.3	1,208.1	1,299.9	1,488.0	1,648.7
Total loans to deposits.....	Percent.....	63.4	67.4	68.4	67.7	70.2	70.8	70.5	75.8	77.9
Net loan losses to average total loans.....	Percent.....	.61	.37	.34	.38	.36	.56	.66	.76	1.25
Aggregate net operating income <sup>3</sup> .....	Mill. dol.....	7,146	10,899	13,126	14,484	15,600	15,587	14,907	15,540	17,953
Aggregate net income to average equity capital.....	Percent.....	11.3	13.1	14.3	14.1	13.8	12.1	11.1	10.7	11.3
Aggregate net income to total assets.....	Percent.....	.72	.82	.88	.78	.77	.72	.64	.63	.68

<sup>1</sup> Includes limited life preferred stock.

<sup>2</sup> Risk assets are total assets less cash, U.S. Government securities, and Federal funds sold. <sup>3</sup> 1975-1984, after taxes and before security transactions; 1985, after taxes and securities transactions.

Source: U.S. Federal Deposit Insurance Corporation, *The Condition of the Financial System*, May 1980, and unpublished data.

### NO. 810. BANKS CLOSED DUE TO FINANCIAL DIFFICULTIES AND PROBLEM BANKS: 1971 TO 1985

[Banks are closed either permanently or temporarily by order of supervisory authorities or by directors of banks. See *Historical Statistics, Colonial Times to 1970*, series X 741, 746, 756, and 761]

ITEM	Unit	1971-1980	1977	1978	1979	1980	1981	1982	1983	1984	1985
Total banks closed.....	Number.....	83	6	7	10	10	10	42	49	80	120
Insured.....	Number.....	79	6	7	10	10	10	42	48	79	120
Noninsured.....	Number.....	4	-	-	-	-	-	-	1	-	-
Deposits.....	Mil. dol.....	5,372	205	854	111	216	3,826	9,908	5,459	2,962	8,059
Insured.....	Mil. dol.....	5,290	205	854	111	216	3,826	9,908	5,442	2,932	8,059
Noninsured.....	Mil. dol.....	81	-	-	-	-	-	-	18	29	-
Problem banks <sup>1</sup> .....	Number.....	(x)	368	342	287	217	223	369	642	848	1,140

- Represents zero. X Not applicable.

<sup>1</sup> FDIC insured commercial and mutual savings banks considered to be problem banks by the supervisory authorities.

Source: U.S. Federal Deposit Insurance Corporation, *Annual Report*; and unpublished data.

### NO. 811. U.S. BANKING OFFICES OF FOREIGN BANKS—SUMMARY: 1975 TO 1985

[In billions of dollars, except as indicated. As of December, except as indicated. Covers agencies, branches, subsidiary commercial banks, New York State investment companies, and, for data by country only, finance companies]

YEAR	Assets	LOANS		Deposits	COUNTRY	NUMBER OF—		Assets	Loans, commercial and industrial	Deposits
		Total	Busi-ness			Banks with U.S. offices	U.S. offices			
1975.....	52.4	29.9	19.9	22.6	1985, total <sup>2</sup> .....	256	616	430.2	111.8	259.5
1976.....	61.3	35.4	19.7	26.1	Japan.....	28	83	164.7	38.7	102.1
1977.....	76.8	41.5	22.0	33.8	United Kingdom.....	13	54	63.6	16.6	44.8
1978.....	109.1	65.3	32.7	48.3	Canada.....	10	60	42.2	12.0	22.6
1979.....	149.6	91.9	48.2	62.8	Hong Kong.....	11	31	24.4	7.4	16.9
1980.....	200.6	121.4	59.6	80.4	Italy.....	10	24	24.6	6.3	17.0
1981.....	250.6	157.7	73.6	101.8	France.....	14	38	20.1	4.7	11.1
1982.....	299.8	185.2	82.4	154.3	Switzerland.....	8	17	14.5	3.5	7.3
1983.....	328.8	192.4	84.5	181.3	Israel.....	4	26	9.7	3.0	8.1
1984.....	394.4	220.1	97.8	233.7	Germany, Fed. Rep... Mexico.....	13 6	22 11	7.7 3.9	2.5 1.8	4.6 1.7
1985.....	441.0	247.4	108.8	241.4						
SHARE <sup>1</sup>										
1975.....	5.3	5.7	10.4	2.9						
1980.....	11.9	13.4	18.2	6.6						
1984.....	15.9	15.1	21.6	12.9						
1985.....	16.1	15.4	22.5	12.3						

<sup>1</sup> Percent of "domestically owned" commercial banks plus U.S. offices of foreign banks. <sup>2</sup> As of June 30. Includes other countries not shown separately. Source: *American Banker*, New York, NY, February 14, 1986.

Source: Except as noted, Board of Governors of the Federal Reserve System, unpublished data.

### NO. 812. 500 LARGEST BANKS IN THE WORLD—NUMBER AND DEPOSITS, BY LOCATION OF BANK: 1970 TO 1985

[Deposits in billions of dollars, except percent. Data cover U.S. commercial banks and foreign banks that conduct a commercial banking business; beginning 1983, includes U.S. and foreign savings banks. Beginning 1981, covers top 500 banks in assets available. Number of banks includes banks more than 50 percent owned by other banks. To avoid double-counting of deposits, banks more than 50 percent owned by other banks are excluded from deposit totals if their parent bank consolidates their deposits]

LOCATION OF BANK	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	PERCENT		
											1970	1980	1985
NUMBER													
U.S. banks.....	185	137	106	95	93	97	97	102	115	110	37.0	18.6	22.0
Foreign banks.....	315	363	394	405	407	403	403	398	385	390	63.0	81.4	78.0
DEPOSITS													
Total.....	890	2,176	3,889	4,508	4,994	5,213	5,230	5,683	5,854	7,025	100.0	100.0	100.0
U.S. banks.....	296	494	635	697	754	806	794	882	961	1,014	33.3	15.1	14.4
Foreign banks.....	594	1,682	3,253	3,811	4,240	4,407	4,436	4,801	4,893	6,012	66.7	84.9	85.6

Source: *American Banker*, New York, NY, selected July issues.

# **NO. 813. FOREIGN BRANCHES OF U.S. FEDERAL RESERVE MEMBER BANKS—NUMBER AND ASSETS: 1970 TO 1985**

[As of year end. The foreign branch activities of nonmember banks are not significant]

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
Member banks operating foreign branches .....	Number .....	79	126	137	139	159	159	162	166	163	164
Foreign branches .....	Number .....	532	762	761	789	787	841	900	892	905	1,001
Assets of foreign branches <sup>1 2</sup> .....	Bl. dol. ....	50.0	145.3	232.0	279.5	310.5	343.3	341.3	333.1	291.3	<sup>3</sup> 294.0
Percent of total assets of all insured commercial banks <sup>4</sup> .....	Percent .....	7.3	13.1	15.0	15.4	16.3	16.1	14.2	11.9	10.3	<sup>3</sup> 9.0
Assets of branches in United Kingdom <sup>1</sup> .....	Bl. dol. ....	24.0	66.7	78.2	95.0	107.4	111.9	110.8	132.4	86.7	<sup>3</sup> 100.0
Assets of branches in The Bahamas and Cayman Islands <sup>1</sup> .....	Bl. dol. ....	4.0	36.6	67.9	87.5	93.3	104.8	100.5	116.7	85.5	<sup>3</sup> 78.0

<sup>1</sup> Data exclude claims on other foreign branches of the same bank. <sup>2</sup> Includes assets of foreign branches in countries other than those shown separately. <sup>3</sup> Estimated. <sup>4</sup> Percentages reflect adjustments to exclude foreign branch claims on the U.S. offices of their parent banks.

Source: Board of Governors of the Federal Reserve System, unpublished data.

# **NO. 814. FOREIGN LENDING BY LARGE U.S. BANKS, BY COUNTRY, TYPE OF BORROWER, AND MATURITY: 1985**

[In millions of dollars. As of December. Covers 195 U.S. banking organizations which do nearly all of the foreign lending in the country. Data represent claims on foreign residents and institutions held at all domestic and foreign offices of covered banks. Data cover only cross-border and non-local currency lending. These result from a U.S. bank's office in one country lending to residents of another country or lending in a currency other than that of the borrower's country. Excludes \$106.6 billion in local currency loans and other claims and \$69.8 billion in local currency liabilities held by banks' foreign offices on residents of the country in which the office was located (e.g. Deutsche mark loans to German residents booked at the German branch of the reporting U.S. bank)]

COUNTRY	CLAIMS		Bank bor- rowers	Private non- bank bor- rowers	COUNTRY	CLAIMS		Bank bor- rowers	Private non- bank bor- rowers
	Total <sup>1</sup>	Per- cent short- term <sup>2</sup>				Total <sup>1</sup>	Per- cent short- term <sup>2</sup>		
<b>Total <sup>3</sup></b> .....	<b>294,547</b>	<b>66</b>	<b>137,613</b>	<b>80,342</b>	Israel .....	1,725	71	1,269	128
Algeria .....	829	25	337	95	Italy .....	8,674	64	5,066	1,019
Argentina .....	8,411	59	1,423	2,029	Ivory Coast .....	358	20	20	19
Australia .....	5,608	54	846	4,274	Japan .....	14,533	79	8,426	5,958
Austria .....	1,577	81	1,147	116	Korea, Rep. of .....	9,165	65	4,353	2,895
Bahamas .....	5,361	94	4,935	397	Kuwait .....	930	92	613	234
Bahrain .....	1,269	98	1,179	72	Liberia .....	1,451	43	8	1,405
Belgium-Luxembourg .....	8,026	92	6,813	683	Malaysia .....	1,087	37	188	455
Bermuda .....	594	73	40	528	Mexico .....	24,934	32	4,214	7,356
Brazil .....	22,786	40	6,830	3,755	Morocco .....	905	69	452	38
British West Indies .....	8,333	98	8,210	94	Netherlands .....	2,627	75	1,155	1,253
Canada .....	10,537	65	5,354	4,698	Netherlands Antilles .....	981	53	237	721
Chile .....	6,589	40	2,576	881	New Zealand .....	1,166	45	92	850
China:					Nigeria .....	1,199	65	322	114
Mainland .....	573	87	353	91	Norway .....	2,991	51	871	1,967
Taiwan .....	1,914	65	711	675	Panama .....	3,002	67	1,101	1,523
Colombia .....	2,625	56	836	534	Peru .....	1,654	68	288	217
Costa Rica .....	451	30	32	36	Philippines .....	5,418	49	747	1,355
Denmark .....	2,870	69	1,183	1,431	Poland .....	550	19	157	5
Dominican Rep. ....	485	56	26	87	Portugal .....	1,246	49	493	6
Ecuador .....	2,143	49	72	131	Saudi Arabia .....	1,618	72	347	1,282
Egypt .....	996	74	668	171	Singapore .....	6,255	92	5,221	878
Finland .....	1,644	69	930	417	South Africa .....	3,241	80	2,168	959
France .....	9,930	78	7,057	1,220	Soviet Union .....	114	13	7	8
German Dem. Rep. ....	310	73	169	30	Spain .....	3,513	47	1,253	1,176
Germany, Fed. Rep. ....	4,526	63	2,064	1,946	Sweden .....	3,038	79	1,925	582
Greece .....	2,812	36	163	1,721	Switzerland .....	3,812	82	1,649	2,004
Hong Kong .....	6,530	85	4,104	2,344	Thailand .....	1,877	72	891	695
Hungary .....	606	47	69	8	Turkey .....	2,106	52	539	171
India .....	935	51	251	366	United Arab Emirates .....	570	82	270	128
Indonesia .....	2,748	58	182	1,727	United Kingdom .....	39,825	87	28,990	9,615
Iraq .....	557	56	440	5	Uruguay .....	913	40	30	86
Ireland .....	1,207	55	344	229	Venezuela .....	10,091	84	2,236	2,729
					Yugoslavia .....	2,398	46	1,146	228

<sup>1</sup> Includes public borrowers, not shown separately. <sup>2</sup> Maturity, one year or less. <sup>3</sup> Includes countries not shown separately.

Source: Board of Governors of the Federal Reserve System, Federal Financial Institutions Examination Council, statistical release.

## NO. 815. SAVINGS AND LOAN ASSOCIATIONS—FINANCIAL SUMMARY: 1970 TO 1985

[In billions of dollars, except number of associations. As of December 31, except as indicated. Includes Puerto Rico and Guam. Excludes associations which have either liquidated or converted to banks; for details, see source. Minus sign (—) indicates outflow. See also *Historical Statistics, Colonial Times to 1970*, series X 834-844]

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985, prel.
Number of associations .....	5,669	4,931	4,761	4,725	4,694	4,613	4,292	3,825	3,502	3,393	3,179
Number insured .....	4,365	4,078	4,065	4,053	4,039	4,002	3,779	3,343	3,040	2,938	2,907
<b>Total assets</b> .....	<b>176.2</b>	<b>338.2</b>	<b>459.2</b>	<b>523.6</b>	<b>579.0</b>	<b>629.8</b>	<b>664.2</b>	<b>707.6</b>	<b>773.4</b>	<b>903.5</b>	<b>948.8</b>
Cash and investment securities .....	16.5	30.9	39.2	44.9	46.3	57.6	63.1	85.4	104.3	124.8	126.7
Mortgage loans outstanding <sup>1</sup> .....	150.3	278.6	381.2	432.9	475.7	502.8	518.5	483.6	494.8	555.3	583.2
Other assets .....	9.3	28.7	38.9	45.9	56.9	69.4	82.6	138.6	174.3	223.4	238.8
<b>Total liabilities</b> .....	<b>163.8</b>	<b>318.5</b>	<b>434.0</b>	<b>494.6</b>	<b>546.3</b>	<b>596.4</b>	<b>635.8</b>	<b>681.4</b>	<b>742.5</b>	<b>868.7</b>	<b>907.9</b>
Deposit accounts .....	146.4	285.7	386.8	431.0	470.0	511.0	525.1	568.0	634.5	725.0	750.1
Other .....	17.4	32.7	47.2	63.6	76.3	85.4	110.7	113.4	108.0	143.6	157.8
Net worth <sup>2</sup> .....	12.4	19.8	25.2	29.0	32.6	33.4	28.4	26.2	30.9	34.8	40.9
<b>Mortgage loans made during year <sup>3</sup></b> .....	<b>21.4</b>	<b>55.0</b>	<b>107.4</b>	<b>110.3</b>	<b>100.5</b>	<b>72.5</b>	<b>53.3</b>	<b>54.3</b>	<b>135.3</b>	<b>157.0</b>	<b>180.0</b>
Home construction <sup>4</sup> .....	4.2	8.7	18.2	20.1	18.6	13.5	10.3	9.1	18.5	18.5	16.1
Home purchase <sup>4</sup> .....	10.2	30.7	62.5	65.6	60.7	41.9	27.5	20.5	50.2	59.1	97.2
Net new savings <sup>5</sup> .....	5.3	29.3	32.0	23.5	15.0	10.7	-25.4	-6.4	63.2	56.9	-4.3

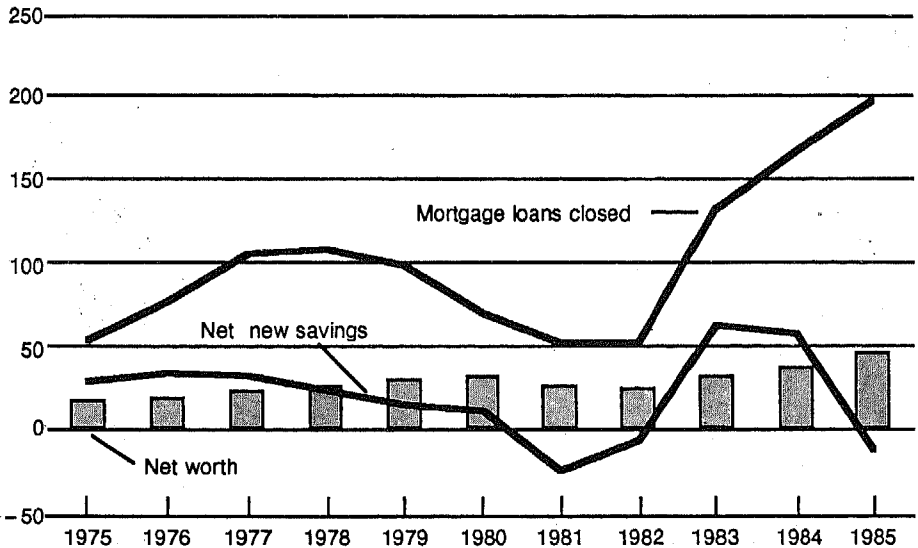
<sup>1</sup> Includes real estate sold on contract. <sup>2</sup> Includes permanent stock. <sup>3</sup> Beginning 1985, all activity reported on a gross basis including refinancings and combination construction-purchase loans. Includes loans not shown separately.  
<sup>4</sup> Covers only 1-4 unit residential structures. <sup>5</sup> Insured institutions only. Includes FSLIC-insured savings and loan associations and FSLIC-insured savings banks.

Source: U.S. Federal Home Loan Bank Board, *Savings and Home Financing Source Book*, annual.

Figure 16.3

## Savings Institutions – Financial Items: 1975 to 1985

Billions of dollars



Note: Represents FSLIC (Federal Savings and Loan Insurance Corporation) insured institutions.

Source: Chart prepared by U.S. Bureau of the Census. For data, see table 817.

## NO. 816. SAVINGS INSTITUTIONS (FSLIC-INSURED)—NUMBER OF OFFICES AND SAVINGS: 1985

[As of June 30. See headnote, table 817. Includes Puerto Rico and outlying areas]

NUMBER OF BRANCHES	Number of institutions	NUMBER OF OFFICES						Total savings (bil. dol.)
		Total	Size of total savings					
			Less than \$10 million	\$10-\$24.9 million	\$25-\$49.9 million	\$50-\$99.9 million	\$100 million and over	
Savings institutions, total.....	3,180	22,366	5,111	7,473	5,450	3,097	1,235	810.3
No branches.....	923	923	134	296	300	155	38	34.8
1 branch.....	450	900	286	237	232	114	31	26.0
2 branches.....	367	1,101	373	317	233	138	40	31.8
3-5 branches.....	636	3,070	1,006	1,005	544	388	127	80.3
6-9 branches.....	326	2,687	744	846	589	280	129	80.6
10 or more branches.....	478	13,685	2,568	4,672	3,552	2,022	871	546.7

Source: U.S. Federal Home Loan Bank Board, *Summary of Savings Accounts by Geographic Area*, 1985.

## NO. 817. SAVINGS INSTITUTIONS (FSLIC-INSURED)—SELECTED FINANCIAL ITEMS AND RATIOS OF CONDITION: 1970 TO 1985

[As of Dec. 31 for assets, liabilities and net worth; calendar year for other items. Includes Puerto Rico and Guam. FSLIC-Federal Savings and Loan Insurance Corporation. Beginning 1983, includes FSLIC-insured savings and loan associations which changed to FSLIC-insured savings banks. Minus sign (-) indicates either loss or outflow]

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985
<b>Assets</b> <sup>1</sup>	Bil. dol.	170.5	329.0	566.7	615.3	651.0	686.2	814.6	977.5	1,089.5
Mortgage assets.....	Bil. dol.	146.1	280.1	486.4	519.5	542.3	555.7	647.2	751.6	805.6
Mortgage loans outstanding.....	Bil. dol.	146.1	271.3	466.5	492.7	509.5	494.6	554.6	638.9	691.0
Residential <sup>2</sup> .....	Bil. dol.	120.6	216.8	385.5	409.4	423.5	399.4	423.6	456.2	470.1
Commercial.....	Bil. dol.	25.2	52.8	77.8	79.7	82.0	90.4	124.6	174.1	210.7
Other.....	Bil. dol.	2	1.7	3.2	3.6	4.0	4.9	6.4	8.6	10.2
Mortgage-backed securities.....	Bil. dol.	(NA)	8.8	19.9	26.8	32.8	61.1	92.6	112.7	114.6
Nonmortgage loans.....	Bil. dol.	1.9	6.6	15.8	18.7	18.6	20.8	29.1	46.7	63.2
Cash and securities.....	Bil. dol.	15.8	29.9	45.9	55.9	61.1	80.6	109.8	136.8	143.4
Other assets.....	Bil. dol.	6.7	12.3	18.6	21.2	29.1	29.1	28.5	42.4	57.3
<b>Liabilities</b> .....	Bil. dol.	158.6	309.9	535.1	582.9	623.2	660.9	781.9	940.3	1,022.7
Deposits without a fixed maturity.....	Bil. dol.	84.1	119.0	117.8	106.9	99.4	124.3	203.1	199.9	229.9
Passbook savings account.....	Bil. dol.	84.1	119.0	117.4	105.7	91.4	(NA)	(NA)	62.6	63.4
Money market deposit accounts.....	Bil. dol.	-	-	-	-	-	(NA)	(NA)	108.4	129.4
Transaction accounts (N.O.W.).....	Bil. dol.	-	-	4	1.2	8.0	14.7	23.4	28.9	37.1
Small fixed maturity accounts.....	Bil. dol.	57.5	158.6	314.9	352.2	365.4	370.2	384.3	471.2	505.8
Managed liabilities.....	Bil. dol.	10.8	20.5	81.6	103.1	136.3	153.3	178.4	251.3	265.5
Large time deposits.....	Bil. dol.	(NA)	(NA)	26.8	39.7	47.5	55.5	80.0	113.4	108.5
FHLB advances.....	Bil. dol.	10.5	17.4	40.1	46.6	62.4	63.9	57.2	71.7	84.4
Other borrowing.....	Bil. dol.	3	3.0	14.6	16.8	26.4	34.0	41.1	66.2	72.6
Other liabilities.....	Bil. dol.	6.2	11.8	20.8	20.8	22.1	13.1	16.1	17.9	21.8
<b>Net worth</b> .....	Bil. dol.	11.9	19.1	31.6	32.4	27.8	25.3	32.8	37.2	46.8
<b>Net worth to total assets ratio</b> .....	Ratio	7.0	5.8	5.5	5.3	4.3	3.7	4.0	3.8	4.4
Gross operating income.....	Bil. dol.	10.7	23.7	48.6	56.1	65.2	71.5	80.0	100.6	110.5
Operating expense.....	Bil. dol.	1.9	3.9	7.1	7.9	9.0	10.1	12.3	15.3	19.5
Cost of funds.....	Bil. dol.	6.1	17.6	36.4	47.4	63.3	70.3	67.7	84.4	87.5
Net income before taxes.....	Bil. dol.	1.2	2.1	5.2	1.2	-6.2	-5.9	2.7	1.4	6.0
Net income after taxes.....	Bil. dol.	.9	1.4	3.6	.8	-4.6	-4.3	2.0	1.1	3.8
Gross savings receipts.....	Bil. dol.	62.0	151.1	354.5	454.5	520.8	634.5	879.0	1,106.6	(NA)
New savings received.....	Bil. dol.	56.5	138.4	330.6	424.2	482.0	590.8	832.0	1,052.3	(NA)
Interest/dividends credited.....	Bil. dol.	5.5	12.8	23.9	30.3	38.8	43.7	47.0	54.3	(NA)
Savings withdrawals.....	Bil. dol.	51.2	109.1	315.6	413.5	507.4	597.3	768.8	995.4	(NA)
Net savings inflow.....	Bil. dol.	10.8	42.1	38.9	41.0	13.4	37.3	110.2	111.2	52.1
Net new savings received.....	Bil. dol.	5.3	29.3	15.9	10.7	-25.4	-6.4	69.2	56.9	-4.3
Mortgage loans closed <sup>3</sup> .....	Bil. dol.	20.8	53.8	114.8	95.2	62.0	60.5	151.1	181.3	196.7
Average cost of funds.....	Percent	5.30	6.32	7.47	8.94	10.92	11.38	9.83	10.03	9.20
Average effective dividend rate paid.....	Percent	5.14	6.21	7.29	8.78	10.71	11.19	9.71	9.93	9.03
Average interest return on mortgages.....	Percent	6.56	7.71	8.86	9.34	9.91	10.68	11.17	11.66	11.53
Net after taxes income to average assets.....	Percent	.57	.47	.67	.13	-.73	-.85	.27	.13	.39

- Represents zero. NA Not available. <sup>1</sup> Beginning 1982, not comparable with data for 1970-1981. <sup>2</sup> Includes 1-4 family conventional loans and all FHA- and VA-underwritten loans. <sup>3</sup> Beginning 1979 reported on a gross basis including refinancing and combination construction-purchase loan.

Source: U.S. Federal Home Loan Bank Board, *Combined Financial Statements*, annual; *Savings and Home Financing Source Book*, annual; and *Federal Home Loan Bank Board Journal*, monthly.

# **No. 818. SAVINGS INSTITUTIONS (FSLIC-INSURED)—SELECTED FINANCIAL ITEMS, STATES AND OTHER AREAS: 1985**

[In millions of dollars, except number of institutions. As of December 31. Covers savings and loan associations and savings banks. For composition of regions, see fig. 1, inside front cover]

REGION, DIVISION, AND STATE	Number of institutions	Total assets	Mortgage loans outstanding <sup>1</sup>	Deposits	DIVISION AND STATE, OR OTHER AREAS	Number of institutions	Total assets	Mortgage loans outstanding <sup>1</sup>	Deposits
<b>Total.....</b>	<b>3,246</b>	<b>1,069,611</b>	<b>760,340</b>	<b>843,956</b>	<b>So. Atl.—Con.</b>				
<b>U.S.....</b>	<b>3,233</b>	<b>1,064,493</b>	<b>757,920</b>	<b>840,963</b>	MD.....	93	16,874	12,760	14,501
<b>Region:</b>					DC.....	6	3,913	3,166	2,905
Northeast.....	503	145,714	98,431	120,249	VA.....	67	21,106	15,710	17,141
Midwest.....	1,040	243,683	176,315	198,283	WV.....	19	2,307	1,649	1,978
South.....	1,267	321,164	226,020	262,957	NC.....	139	17,432	13,138	15,376
West.....	423	353,932	257,154	259,494	SC.....	47	9,719	6,878	8,015
<b>N. Eng.....</b>	<b>99</b>	<b>21,211</b>	<b>14,630</b>	<b>16,604</b>	GA.....	65	14,378	10,804	12,341
ME.....	15	827	476	685	FL.....	143	81,188	56,637	63,641
NH.....	14	1,894	1,417	1,610	<b>E. So. Cent.....</b>	<b>212</b>	<b>29,038</b>	<b>20,822</b>	<b>25,358</b>
VT.....	4	375	254	308	KY.....	68	7,459	5,547	6,870
MA.....	28	5,122	3,771	4,022	TN.....	62	9,804	6,772	8,570
RI.....	3	2,860	1,600	2,134	AL.....	37	7,714	5,869	6,532
CT.....	35	10,133	7,112	7,845	MS.....	45	4,081	2,834	3,586
<b>Mid Atl.....</b>	<b>404</b>	<b>124,503</b>	<b>83,801</b>	<b>103,645</b>	<b>W. So. Cent.....</b>	<b>472</b>	<b>124,896</b>	<b>84,431</b>	<b>101,420</b>
NY.....	88	42,222	25,945	34,487	AR.....	39	8,403	6,075	7,289
NJ.....	141	47,055	32,306	39,284	LA.....	106	14,768	10,270	12,892
PA.....	175	35,226	25,550	29,874	OK.....	54	9,936	7,241	8,424
<b>E. No. Cent.....</b>	<b>764</b>	<b>170,408</b>	<b>121,229</b>	<b>141,398</b>	TX.....	273	91,789	60,845	72,815
OH.....	247	50,838	37,169	44,373	<b>Mt.....</b>	<b>128</b>	<b>51,441</b>	<b>34,988</b>	<b>38,450</b>
IN.....	116	12,145	8,998	10,746	MT.....	11	1,204	812	1,049
IL.....	269	60,515	41,981	52,753	ID.....	9	1,610	1,042	1,212
MI.....	52	31,679	22,145	20,160	WY.....	12	1,306	840	1,164
WI.....	80	15,231	10,936	13,366	CO.....	37	14,235	10,442	10,804
<b>W. No. Cent.....</b>	<b>276</b>	<b>73,275</b>	<b>55,086</b>	<b>56,865</b>	NM.....	25	4,977	3,173	4,136
MN.....	37	14,671	9,554	10,568	AZ.....	14	18,658	12,188	12,881
IA.....	52	9,121	6,880	7,745	UT.....	14	6,041	4,197	4,484
MO.....	86	21,279	16,211	18,454	NV.....	6	3,409	2,194	2,720
ND.....	6	3,478	2,419	2,537	<b>Pac.....</b>	<b>295</b>	<b>302,491</b>	<b>222,166</b>	<b>221,044</b>
SD.....	13	1,363	857	1,241	WA.....	45	15,376	11,848	11,075
NE.....	23	8,289	6,549	5,768	OR.....	20	9,747	6,425	6,900
KS.....	59	15,074	12,616	10,552	CA.....	219	273,204	200,867	199,910
<b>So. Atl.....</b>	<b>583</b>	<b>167,230</b>	<b>120,767</b>	<b>136,179</b>	AK.....	5	580	380	411
DE.....	4	313	225	281	HI.....	6	3,584	2,646	2,748
					PR.....	11	5,035	2,363	2,944
					GU.....	2	83	57	49

<sup>1</sup> Includes mortgage-backed securities and reflects deductions from asset accounts.

Source: U.S. Federal Home Loan Bank Board, *Savings and Home Financing Source Book*, annual.

## **No. 819. FEDERAL AND STATE-CHARTERED CREDIT UNIONS—SUMMARY: 1970 TO 1985**

[As of December 31. Federal data include District of Columbia, Puerto Rico, Canal Zone, Guam, and Virgin Islands. Beginning 1983, State data cover only federally insured State-chartered credit unions. Beginning 1981, data exclude corporate central credit unions which have mainly other credit unions as members. See also *Historical Statistics, Colonial Times to 1970*, series X 864-878]

YEAR	CREDIT UNIONS REPORTING <sup>1</sup>		MEMBERS (1,000)		ASSETS (mil. dol.)		LOANS OUTSTANDING (mil. dol.)		SAVINGS (mil. dol.)	
	Federal	State	Federal	State	Federal	State	Federal	State	Federal	State
1970.....	12,977	10,679	11,966	10,853	8,861	9,089	6,969	7,137	7,629	7,857
1975.....	12,737	9,871	17,066	14,196	20,209	17,804	14,869	13,300	17,530	15,522
1980.....	12,440	9,025	24,519	19,235	40,092	33,143	26,350	22,693	36,263	29,480
1981.....	11,951	8,746	25,449	19,620	39,181	32,596	27,238	23,156	35,248	28,971
1982.....	11,426	8,464	26,105	20,393	45,494	36,866	28,192	23,454	41,352	33,296
1983.....	10,962	4,915	26,798	14,278	54,482	27,479	33,201	17,215	49,889	24,850
1984.....	10,548	4,645	28,170	15,205	63,857	29,188	42,132	19,951	57,927	26,327
1985.....	10,125	4,920	29,576	15,689	78,205	41,525	48,241	26,168	71,616	37,917

<sup>1</sup> Represents operating credit unions.

Source: National Credit Union Administration, *Annual Report of the National Credit Union Administration*, and unpublished data.

# NO. 820. HOLDINGS OF CONSTRUCTION, LONG-TERM MORTGAGE, AND LAND LOANS, BY TYPE OF LOAN, 1970 TO 1985, AND BY LENDER, 1985

[In billions of dollars. As of end of year]

TYPE OF LOAN	1970	1975	1980	1982	1983	1984	Total <sup>1</sup>	1985					
								Lender					
								Savings and loan assn.	Commercial banks	Mutual savings banks	Life insurance companies	Federal credit agencies	Mortgage pools
<b>Mortgage credits, total</b> .....	<b>422</b>	<b>731</b>	<b>1,318</b>	<b>1,462</b>	<b>1,612</b>	<b>1,868</b>	<b>2,040</b>	<b>658</b>	<b>401</b>	<b>110</b>	<b>168</b>	<b>189</b>	<b>392</b>
Construction loans.....	18	41	63	78	110	143	138	44	73	5	1	1	-
1-4 unit family homes.....	5	13	26	26	33	40	30	14	13	1	(z)	-	-
Multifamily residential.....	6	12	14	17	23	26	27	10	9	1	(z)	1	-
Nonresidential.....	7	17	22	36	54	81	81	20	51	3	-	-	-
Farm properties.....	(z)	-	-	-	-	-	-	-	-	-	-	-	-
Long-term mortgage loans.....	400	679	1,242	1,388	1,484	1,693	1,867	594	315	105	166	187	392
1-4 unit family homes.....	267	435	857	940	1,020	1,184	1,284	459	184	78	12	111	377
FHA-insured.....	62	68	105	119	145	155	177	10	5	6	2	18	120
VA-guaranteed.....	37	57	91	98	114	120	127	14	3	7	2	10	67
Conventional.....	168	310	661	723	760	869	980	435	176	63	8	83	169
Multifamily.....	46	82	114	116	124	146	167	62	13	14	19	24	6
Nonresidential.....	66	128	205	230	258	299	338	73	107	15	123	6	(z)
Farm properties.....	20	34	66	81	83	84	78	1	10	(z)	12	45	9
Land loans.....	4	11	13	16	18	29	35	20	13	(z)	1	-	-

- Represents zero. Z Less than \$500 million. <sup>1</sup> Includes other lenders not shown separately.

Source: U.S. Dept. of Housing and Urban Development, *The Supply of Mortgage Credit, 1970-1979*; and monthly and quarterly press releases based on Survey of Mortgage Lending Activity.

## NO. 821. MORTGAGE ACTIVITY OF BANKS, INSURANCE COMPANIES, AND SAVINGS AND LOAN ASSOCIATIONS: 1970 TO 1985

[In billions of dollars. Loans outstanding are as of end of year. Bank and savings and loan data include Puerto Rico. See also *Historical Statistics, Colonial Times to 1970*, series N 266-267, X 836-839, and X 911]

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>Commercial banks:</b>											
Loans outstanding <sup>1</sup> .....	73.3	136.2	177.8	212.7	243.8	262.3	282.7	299.0	328.0	374.8	401.1
Nonfarm residential.....	45.6	82.9	111.7	136.3	158.1	170.2	181.7	185.5	198.2	212.9	219.4
FHA-insured.....	7.9	6.3	5.3	5.2	4.8	4.4	4.5	4.6	5.6	5.8	5.7
VA-guaranteed.....	2.6	3.1	3.0	2.8	2.7	2.4	2.4	2.7	3.1	3.0	2.9
Conventional.....	35.1	73.5	103.4	128.3	150.6	163.3	174.7	178.2	187.5	204.1	210.8
Other nonfarm.....	23.3	46.9	58.3	68.0	77.1	83.5	92.7	105.1	122.4	151.3	171.3
Farm.....	4.4	6.4	7.8	8.5	8.6	8.5	8.3	8.4	9.3	10.5	10.4
<b>Mutual savings banks:</b>											
Loans acquired.....	6.1	8.9	15.3	15.5	14.0	8.2	5.8	7.0	17.3	21.3	24.9
Loans outstanding <sup>2</sup> .....	57.9	77.2	88.1	94.4	99.7	100.1	99.3	97.1	99.5	106.4	110.4
Nonfarm residential.....	49.9	63.8	72.9	78.5	83.7	83.9	83.4	81.6	83.8	88.7	91.9
FHA-insured.....	16.1	14.4	14.0	13.8	13.8	13.2	12.5	11.7	10.7	9.5	8.3
VA-guaranteed.....	12.0	12.4	12.0	11.9	11.4	10.8	10.3	9.7	8.8	7.9	6.9
Conventional.....	21.8	37.0	46.9	52.9	58.5	59.9	60.6	60.2	64.3	71.4	78.7
Other nonfarm.....	7.9	13.3	15.2	15.9	16.0	16.1	15.8	15.5	15.7	17.7	18.5
<b>Life insurance companies:</b>											
Loans acquired.....	6.6	8.8	13.3	16.9	19.6	18.3	13.0	10.0	18.8	19.2	31.7
Nonfarm.....	6.3	7.7	10.9	14.2	16.8	16.5	11.8	9.3	17.6	18.2	30.6
Farm.....	3	1.1	2.4	2.7	2.8	1.8	1.2	0.7	1.2	1.0	1.1
Loans outstanding.....	74.4	89.2	96.8	102.9	115.1	127.9	135.8	138.5	148.4	154.5	167.9
Nonfarm.....	68.7	82.4	87.9	92.4	103.0	115.0	125.5	125.7	135.7	142.1	156.1
FHA-insured.....	11.4	7.9	6.6	6.1	5.8	5.5	5.1	4.8	4.4	4.1	3.2
VA-guaranteed.....	5.4	3.9	3.3	3.2	3.0	2.8	2.6	2.5	2.3	2.0	1.5
Conventional.....	51.9	70.6	78.0	83.1	94.2	106.7	114.8	118.4	129.0	136.0	151.4
Farm.....	5.6	6.8	8.8	10.5	12.2	12.8	13.1	12.8	12.7	12.4	11.8
<b>Savings and loan associations:</b>											
Loans made <sup>3</sup> .....	25.8	62.6	123.8	128.2	116.9	86.7	63.1	61.6	147.5	182.3	199.6
Loans outstanding <sup>4</sup> .....	150.3	278.8	381.2	432.9	475.8	502.8	517.9	492.2	512.9	641.4	658.2
FHA-insured.....	10.2	16.5	13.9	13.2	13.0	12.8	12.0	12.1	12.8	12.3	11.1
VA-guaranteed.....	8.5	14.0	16.2	15.8	15.6	15.0	14.2	14.0	15.5	15.0	13.7
Conventional.....	131.7	249.0	351.0	403.9	447.2	475.0	491.7	468.1	484.6	614.1	633.4

<sup>1</sup> Includes loans held by nondeposit trust companies; excludes holdings of trust departments of commercial banks.

<sup>2</sup> Includes a small amount of farm loans not shown separately. <sup>3</sup> Includes Guam. <sup>4</sup> Includes shares pledged against mortgage loans, junior liens and real estate sold on contract.

Source: U.S. Dept. of Housing and Urban Development, *The Supply of Mortgage Credit, 1970-1979*; and monthly and quarterly press releases based on the Survey of Mortgage Lending Activity.

## NO. 822. MORTGAGE DEBT OUTSTANDING AND DELINQUENCY RATE: 1970 TO 1985

[In billions of dollars, except rate. As of Dec. 31. Includes Puerto Rico and Guam. See also *Historical Statistics, Colonial Times to 1970*, series N 273 and N 276]

TYPE OF PROPERTY, HOLDER, AND LOAN TYPE	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
<b>Mortgage debt, total.....</b>	<b>474</b>	<b>792</b>	<b>1,162</b>	<b>1,327</b>	<b>1,458</b>	<b>1,564</b>	<b>1,631</b>	<b>1,812</b>	<b>2,023</b>	<b>2,250</b>
Residential nonfarm.....	358	583	879	1,005	1,108	1,181	1,220	1,349	1,498	1,673
1- to 4-family homes.....	297	482	754	871	964	1,039	1,075	1,190	1,319	1,469
Savings and loan associations.....	125	224	356	394	420	433	393	388	422	433
Commercial banks.....	42	77	129	150	160	170	174	183	197	214
Mutual savings banks.....	42	50	63	66	68	68	65	94	107	122
Life insurance companies.....	27	18	14	16	18	17	17	15	14	14
Federal agencies.....	22	38	44	53	61	68	78	87	98	109
Individuals and others.....	40	76	147	191	237	282	349	423	482	577
5 or more units.....	60	101	125	135	142	142	146	159	179	204
Commercial.....	86	159	212	236	256	278	301	350	413	471
Farm.....	30	50	72	86	96	106	110	113	112	107
<b>Delinquency rate, 1- to 4-unit residential mortgage loans <sup>1</sup>.....</b>	<b>3.13</b>	<b>4.37</b>	<b>4.58</b>	<b>4.63</b>	<b>4.97</b>	<b>5.24</b>	<b>5.53</b>	<b>5.59</b>	<b>5.66</b>	<b>5.84</b>
Conventional loans.....	1.74	2.71	2.68	2.77	3.08	3.27	3.71	3.88	3.89	4.05
VA loans.....	3.03	4.17	4.54	4.82	5.34	5.67	5.95	6.08	6.38	6.84
FHA.....	3.65	4.69	5.47	5.69	6.22	6.44	6.72	6.73	7.00	7.31

<sup>1</sup> Number of loans delinquent 30 days or more as percentage of mortgage loans serviced in survey. Annual average quarterly figures.

Source: Mortgage debt, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly; and delinquency rate, Mortgage Bankers Association, Washington, DC, *National Delinquency Survey*, quarterly.

## NO. 823. MORTGAGE AND CONSUMER DEBT OUTSTANDING—FAMILIES WITH DEBT AND AMOUNT, BY AGE AND FAMILY INCOME: 1983

[Families include one-person units; for definition of family, see text, section 1. Based on a sample survey of 3,024 families residing in the coterminous United States, excluding those on military reservations. Data are subject to sampling variability, see Appendix III]

AGE OF FAMILY HEAD AND 1982 FAMILY INCOME	MORTGAGE DEBT <sup>1</sup>						CONSUMER DEBT							
	Percent of homeowners with debt <sup>2</sup>				Amount outstanding <sup>3 4</sup> (dollars)		Percent of families with debt <sup>6</sup>	Amount outstanding <sup>4 5</sup> (dollars)		Percent of families with installment debt				
	Total	Ratio of monthly debt payments to monthly income			Mean	Medi- an <sup>5</sup>		Mean	Medi- an <sup>5</sup>	Total	Ratio of monthly debt payments to monthly income			
		1-9 per- cent	10-19 per- cent	20 per- cent or more							1-9 per- cent	10-19 per- cent	20 per- cent or more	
All families .....	57	29	18	10	27,147	21,010	62	5,400	2,382	41	25	11	5	
Under 25 years.....	61	18	26	17	24,577	20,049	64	3,584	2,263	45	21	16	9	
25-34 years.....	87	31	38	19	32,266	27,137	77	4,781	2,265	55	34	15	7	
35-44 years.....	84	42	27	14	31,871	25,268	79	6,673	3,030	55	36	14	6	
45-54 years.....	67	42	16	9	23,767	16,167	71	5,780	3,152	49	31	12	5	
55-64 years.....	43	29	8	6	18,334	12,100	57	6,325	1,700	32	18	9	4	
65-74 years.....	20	10	6	3	14,703	10,067	31	3,537	943	14	7	4	3	
75 years and over.....	5	3	1	1	11,029	9,981	15	1,117	308	6	2	2	2	
Less than \$5,000.....	18	3	3	12	18,611	11,925	33	2,834	677	16	3	3	10	
\$5,000-\$7,499.....	27	3	6	17	14,751	8,620	40	1,919	573	21	7	4	10	
\$7,500-\$9,999.....	27	2	10	14	17,173	13,488	48	4,152	1,006	35	14	12	9	
\$10,000-\$14,999.....	40	10	16	14	17,201	13,470	54	3,452	1,451	34	14	13	7	
\$15,000-\$19,999.....	53	21	19	13	17,375	12,943	66	4,295	1,639	44	21	17	6	
\$20,000-\$24,999.....	57	28	21	7	18,606	16,097	72	4,149	2,336	49	27	18	5	
\$25,000-\$29,999.....	70	33	25	12	23,690	21,095	72	4,632	2,929	50	31	16	3	
\$30,000-\$39,999.....	72	41	24	7	27,836	24,041	77	5,138	3,594	56	45	10	1	
\$40,000-\$49,999.....	76	50	21	6	30,031	25,242	80	7,079	4,365	58	47	9	2	
\$50,000 and over.....	78	56	17	5	45,233	36,411	75	12,772	5,529	47	39	8	2	

<sup>1</sup> Includes farm families and owners of mobile homes. <sup>2</sup> Represents homeowners with regular monthly mortgage payments.

<sup>3</sup> Consists of first and second mortgage debt outstanding. <sup>4</sup> Values are for families with outstanding debt.

<sup>5</sup> For explanation of median, see Guide to Tabular Presentation. <sup>6</sup> Consists of credit card and other open-end debt, installment debt, and noninstallment consumer debt from all sources for all families.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, December 1984.

## No. 824. CONSUMER CREDIT OUTSTANDING: 1970 TO 1985

[In billions of dollars, except percent. Estimated amounts of credit outstanding as of end of year. Beginning 1975, seasonally adjusted. See also *Historical Statistics, Colonial Times to 1970*, series X 551-560]

TYPE OF CREDIT	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>Credit outstanding</b> .....	141.0	213.4	217.4	242.0	279.5	325.5	366.8	371.3	393.7	411.7	471.7	568.1	668.2
Ratio to disposable personal income <sup>1</sup> (percent).....	19.7	20.6	19.0	19.3	20.3	21.0	21.2	19.4	18.5	18.2	19.4	21.3	23.9
<b>Installment</b> .....	105.5	164.6	167.0	187.8	221.5	262.0	296.5	297.7	314.3	327.2	376.2	453.6	535.1
Automobile paper.....	36.3	54.3	57.0	66.8	80.9	98.7	112.5	112.3	120.0	125.4	146.0	173.1	206.5
Revolving.....	5.1	13.7	14.5	16.5	36.7	45.2	53.4	54.9	60.8	66.0	78.4	88.5	118.3
Mobile home paper.....	2.5	14.6	15.4	15.7	16.4	16.9	18.2	19.1	20.4	21.0	22.2	24.2	25.5
All other loans.....	61.6	82.0	80.2	88.6	87.5	101.1	112.4	111.1	113.2	114.8	129.8	157.8	164.9
<b>Commercial banks</b> .....	48.7	80.1	83.0	93.6	112.1	135.6	152.7	145.6	146.0	149.1	169.3	209.2	240.8
Finance companies.....	27.6	36.1	32.7	34.4	38.3	45.8	57.0	63.8	73.1	77.0	86.2	96.1	120.1
Credit unions.....	13.0	21.9	25.5	30.9	37.3	44.0	46.1	43.7	45.6	46.9	53.1	66.5	75.1
Retailers <sup>2</sup> .....	13.9	18.1	16.7	18.3	21.5	23.7	25.6	26.1	28.5	29.4	34.2	37.1	39.2
Other <sup>3</sup> .....	2.3	8.4	9.2	10.5	12.2	13.0	15.0	18.5	21.1	24.8	33.5	44.7	59.9
<b>Noninstallment</b> .....	35.4	48.4	50.4	54.2	58.0	63.5	70.3	73.8	79.4	84.5	95.5	114.5	133.1
Single-payment loans.....	19.2	26.5	27.1	28.5	32.4	35.4	39.3	41.5	43.2	46.3	51.7	61.2	69.5
Charge accounts.....	8.7	10.9	11.1	12.1	10.5	11.4	12.2	12.4	13.7	13.7	14.9	17.6	20.5
Service credit.....	7.5	11.0	12.0	13.4	14.8	16.4	18.6	19.3	22.3	24.3	28.6	35.5	42.9
<b>Delinquency rate, bank installment loans<sup>4</sup></b> .....	2.14	3.13	2.77	2.57	2.62	2.71	2.93	2.82	2.61	2.39	1.94	2.09	2.32

<sup>1</sup> See table 711. <sup>2</sup> Excludes 30-day charge credit held by travel and entertainment companies. <sup>3</sup> Comprises savings institutions and gasoline companies. <sup>4</sup> Ratio of seven types of closed-end installment loans (excluding revolving credit and bank cards) delinquent 30 days or more as a percentage of total installment loans outstanding; ratio based on number of loans. Source: American Bankers Association, Washington, DC; *Delinquency Rates on Bank Installment Loans*; quarterly.

## No. 825. INSTALLMENT CREDIT—FINANCE RATES ON SELECTED TYPES OF CREDIT FOR COMMERCIAL BANKS AND FINANCE COMPANIES: 1974 TO 1985

[Percent per year. Annual averages. Commercial bank rates are "most common" rates for direct loans with specified maturities; finance company rates are weighted averages for purchased contracts]

TYPE	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>Commercial banks:</b>												
New automobiles (48 months) <sup>1</sup> .....	10.97	11.36	11.07	10.92	11.02	12.02	14.30	16.54	16.83	13.92	13.71	12.91
Mobile homes (120 months) <sup>1</sup> .....	11.45	11.82	11.75	11.84	12.09	12.77	14.99	17.45	18.05	15.91	15.58	14.96
Other consumer goods (24 months).....	12.99	13.08	13.02	12.97	13.19	13.85	15.47	18.09	18.65	16.68	16.47	15.94
Credit-card plans.....	17.21	17.16	17.05	16.89	17.03	17.03	17.31	17.78	18.51	18.78	18.77	18.70
<b>Finance companies:</b>												
New automobiles.....	12.61	13.12	13.17	13.14	13.15	13.51	14.82	16.17	16.15	12.58	14.62	11.98
Used automobiles.....	17.18	17.63	17.63	17.62	17.67	17.98	19.10	20.00	20.75	18.74	17.84	17.59

<sup>1</sup> For 1974-1982, maturities were 36 months for new car loans and 84 months for mobile home loans.

## No. 826. FAMILIES USING SELECTED FINANCIAL SERVICES, BY AGE AND FAMILY INCOME: 1983

[In percent. See headnote, table 823]

AGE OF HEAD AND 1982 FAMILY INCOME	CREDIT CARDS						Money market deposit account	Money market mutual fund account	Brokerage account
	At least one	Gasoline	Bank	Travel and entertainment	Any retail	Other <sup>1</sup>			
<b>All families</b> .....	62	26	40	9	54	4	8	6	7
<b>Under 25 years</b> .....	38	8	20	7	32	2	3	2	2
25-34 years.....	61	20	37	10	52	4	4	5	5
35-44 years.....	73	30	52	13	63	5	8	9	10
45-54 years.....	69	30	45	10	61	5	7	5	8
55-64 years.....	72	37	50	11	62	5	12	7	9
65-74 years.....	60	26	37	5	53	2	14	7	9
75 years and over.....	35	15	16	(2)	26	1	10	4	2
<b>Less than \$5,000</b> .....	18	3	4	(2)	14	(2)	1	(2)	1
\$5,000-\$7,499.....	29	6	12	2	25	2	3	1	(2)
\$7,500-\$9,999.....	33	14	19	2	26	(2)	4	2	1
\$10,000-\$14,999.....	49	16	26	2	40	(2)	7	3	3
\$15,000-\$19,999.....	64	19	36	5	55	3	8	5	5
\$20,000-\$24,999.....	71	22	40	8	62	2	10	4	6
\$25,000-\$29,999.....	78	31	49	10	67	3	10	8	6
\$30,000-\$39,999.....	87	40	63	13	75	6	10	8	6
\$40,000-\$49,999.....	88	43	70	14	75	6	13	12	14
\$50,000 and over.....	95	61	80	17	83	14	19	23	32

Z Less than .5 percent. <sup>1</sup> Comprises airline and automobile rental cards, and other miscellaneous credit cards.

Source of tables 824-826: Except as noted, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly; *Annual Statistical Digest*; and unpublished data.

## NO. 827. HOUSEHOLDS OWNING INTEREST-EARNING ASSETS, BY SELECTED CHARACTERISTIC: 1984

[Excludes persons in group quarters. Based on the Survey of Income and Program Participation; see text, section 14]

CHARACTERISTIC OF HOUSEHOLDER	Number of house- holds (1,000)	PERCENT OWNING INTEREST-EARNING FINANCIAL ASSETS										
		Total <sup>1</sup>	Held at financial institutions					Other interest-earning assets				
			Total <sup>1</sup>	Pass- book savings accounts	Money mar- ket de- posit accounts	Certifi- cates of de- posit	Inter- est earn- ing check- ing account	Total <sup>1</sup>	Money mar- ket funds	U.S. Government securi- ties	Muni- cipal and corpo- rate bonds	Other as- sets
<b>Total <sup>2</sup> .....</b>	<b>86,790</b>	<b>72.4</b>	<b>71.8</b>	<b>62.9</b>	<b>15.7</b>	<b>19.1</b>	<b>24.9</b>	<b>8.5</b>	<b>3.8</b>	<b>1.4</b>	<b>2.6</b>	<b>2.8</b>
Age:												
Under 35 years old.....	25,730	65.1	64.5	58.3	7.8	7.1	20.9	4.8	2.1	.3	.8	2.1
35-44 years old.....	17,393	73.3	72.4	66.4	14.0	12.7	23.0	7.9	3.9	.8	1.9	2.9
45-54 years old.....	12,586	73.4	72.9	66.1	15.8	18.5	25.0	9.1	4.2	1.3	2.5	3.0
55-64 years old.....	12,920	76.7	76.0	65.0	22.3	28.2	28.1	11.5	5.4	2.0	4.4	3.4
65 years old and over.....	18,151	78.2	77.5	62.5	23.9	36.0	30.0	11.6	4.7	3.1	4.7	3.0
White.....	75,343	76.0	75.4	65.7	17.4	21.2	27.0	9.4	4.2	1.6	2.9	3.0
Black.....	9,509	44.4	43.8	41.6	2.6	4.2	7.2	2.1	.9	.1	.3	1.0
Spanish origin <sup>3</sup> .....	4,162	51.1	50.8	46.9	5.0	6.3	11.9	2.0	1.1	.1	.1	.8
Education:												
Less than 12 years.....	24,736	58.0	57.6	50.1	9.7	16.9	14.9	3.6	1.2	.6	.7	1.6
High school, 4 years.....	27,454	71.5	70.9	63.0	14.0	18.6	22.0	6.2	2.2	1.0	1.8	2.3
College:												
1-3 years.....	17,171	78.0	77.3	68.5	14.7	18.1	27.4	8.7	3.8	1.8	2.7	2.7
4 years or more.....	17,430	88.9	87.7	75.5	28.2	23.8	41.1	18.7	9.9	2.8	6.7	5.3
Household net worth:												
Negative or zero.....	9,529	30.6	30.4	26.9	1.8	1.1	9.2	.8	.4	-	-	.3
\$1-\$4,999.....	13,268	51.8	51.2	47.6	1.8	2.7	11.0	1.4	.2	-	-	1.2
\$5,000-\$9,999.....	5,564	67.7	66.9	62.1	5.6	7.7	18.2	3.2	1.2	.2	.4	1.5
\$10,000-\$24,999.....	10,738	73.2	72.6	63.9	8.8	10.7	20.5	4.7	1.5	.4	.7	2.1
\$25,000-\$49,999.....	12,556	77.4	76.5	68.3	10.8	15.9	21.3	6.1	2.6	.6	.6	2.8
\$50,000-\$99,999.....	16,715	86.6	86.0	75.1	20.7	28.0	30.7	9.0	4.2	1.1	1.9	2.9
\$100,000-\$249,999.....	13,286	93.1	92.3	78.3	35.6	42.1	40.9	17.8	8.1	3.7	5.9	4.8
\$250,000-\$499,999.....	3,481	94.9	93.8	74.9	46.3	43.4	50.9	31.2	15.9	6.8	14.6	7.6
\$500,000 and over.....	1,654	96.1	94.2	77.6	51.1	43.6	60.9	42.1	21.0	10.3	29.1	8.3

- Represents zero. <sup>1</sup> Detail does not add to total because some households have more than one of the types of interest-earning assets specified. <sup>2</sup> Detail includes other races, not shown separately. <sup>3</sup> Persons of Spanish origin may be of any race.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-70, No.7.

## NO. 828. MONEY STOCK AND LIQUID ASSETS: 1970 TO 1986

[In billions of dollars, except percent. As of December, except as indicated. Seasonally adjusted averages of daily figures. See *Historical Statistics, Colonial Times to 1970*, series X 410-417 for similar data]

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986, Mar.
M1 <sup>1</sup> .....	217	291	335	363	389	415	442	480	527	559	627	638
M2.....	628	1,023	1,267	1,389	1,631	1,631	1,794	1,953	2,186	2,374	2,566	2,591
M3.....	678	1,172	1,473	1,646	1,804	1,989	2,236	2,444	2,697	2,987	3,200	3,260
L.....	816	1,368	1,704	1,910	2,116	2,325	2,597	2,850	3,164	3,532	3,836	3,891
Currency.....	49	74	89	98	106	117	124	134	148	159	171	174
Demand deposits.....	166	214	239	254	261	266	235	238	243	248	272	273
Travelers checks.....	1	2	3	3	4	4	4	4	5	5	6	6
Other checkable deposits <sup>2</sup> .....	(Z)	1	4	9	18	28	78	103	131	146	179	185
Savings deposits.....	261	389	492	481	423	402	344	358	307	290	304	307
Money market deposit accounts <sup>2</sup> .....	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	43	379	417	512	521
Small denomination time deposits <sup>3</sup> .....	151	338	446	521	635	729	824	853	785	898	880	895
Large denomination time deposits <sup>4</sup> .....	45	130	145	195	222	259	302	328	390	414	437	451
Money market mutual funds, total <sup>5</sup> .....	(Z)	4	4	10	44	77	187	236	181	230	241	236
General purpose and broker/dealer <sup>6</sup> .....	(Z)	3	2	6	33	62	151	185	138	168	177	186
Institution only <sup>7</sup> .....	(Z)	(Z)	1	3	10	15	38	51	43	63	65	70
Overnight repurchase agreements and Eurodollars <sup>8</sup> .....	1	6	15	20	21	28	36	39	54	56	69	65
Annual percent change: <sup>9</sup>												
M1.....	5.0	6.0	7.2	8.3	7.2	6.7	6.5	8.8	9.8	6.0	12.2	*11.6
M2.....	6.5	10.3	12.2	8.0	17.4	-	10.0	8.9	12.0	8.6	8.2	*6.6
M3.....	7.2	11.6	12.1	11.8	9.6	10.3	12.4	9.4	10.4	10.7	7.2	*7.0
L.....	6.9	10.9	11.6	12.1	10.8	9.9	11.7	9.9	11.0	11.7	8.6	*7.4

- Represents zero. Z Less than \$500 million. <sup>1</sup> M1 is currency plus demand deposits plus travelers checks of nonbank issuers plus other checkable deposits at banks and thrift institutions; M2 is M1 plus overnight RP's and Eurodollars, balances of general purpose and broker/dealer money market mutual fund shares, money market deposits accounts, and savings and small time deposits at commercial banks and thrift institutions; M3 is M2 plus large time deposits and term RP's at commercial banks and thrift institutions, term Eurodollars, and balance of institutions—only money market mutual funds; and L is M3 plus other liquid assets such as savings bonds, short-term Treasury securities, bankers' acceptances, and commercial paper. <sup>2</sup> Not seasonally adjusted. <sup>3</sup> Issued in amounts of less than \$100,000. Includes retail repurchase agreements. <sup>4</sup> Excludes individual retirement accounts and Keogh accounts at commercial banks and thrifts. <sup>5</sup> Issued in amounts of \$100,000 or more and are net of holdings of domestic banks, thrift institutions, the U.S. Government, money market mutual funds, and foreign banks and official institutions. <sup>6</sup> From previous year shown; for 1970, from 1965. For definition of annual percent change, see Guide to Tabular Presentation. <sup>7</sup> Change from March 1985-March 1986.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

## NO. 829. BANK DEBITS AND DEPOSIT TURNOVER: 1971 TO 1985

(Debits in trillions of dollars; turnover as ratio of debits to deposits. Annual averages of monthly data)

ITEM	1971	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>Debits to:</b>												
Demand deposits, all banks <sup>1</sup> .....	11.3	25.1	29.3	34.3	40.2	49.8	63.1	81.2	91.0	108.5	128.1	154.1
Major New York City banks.....	4.1	9.7	11.5	13.8	15.0	18.5	25.2	34.0	38.0	47.2	57.3	70.4
Other banks.....	7.3	15.4	17.8	20.4	25.2	31.3	37.8	47.2	53.0	61.2	70.8	83.7
ATS/NOW accounts <sup>2</sup> .....	(NA)	(NA)	(NA)	(NA)	(Z)	(Z)	.2	.7	1.0	1.4	1.6	1.9
Money market deposit accounts (MMDA).....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	.6	.8	1.2
Savings deposits <sup>3</sup> .....	(NA)	(NA)	(NA)	(NA)	.4	.8	.7	.7	.7	.7	.6	.5
<b>Deposit turnover:</b>												
All banks <sup>1</sup> .....	64	105	117	129	139	163	203	266	325	380	434	497
Major New York City banks.....	171	358	414	502	542	644	815	1,114	1,296	1,510	1,839	2,191
Other banks.....	47	73	80	86	96	113	135	186	212	241	288	302

NA Not available. Z Less than \$50 billion. <sup>1</sup> Represents accounts of individuals, partnerships, and corporations, and of States and political subdivisions at insured commercial banks. <sup>2</sup> Accounts authorized for negotiable orders of withdrawal (NOW) and accounts authorized for automatic transfer to demand deposits (ATS). <sup>3</sup> Excludes ATS and NOW accounts, MMDA and special club accounts, such as Christmas and vacation clubs.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

## NO. 830. MONEY MARKET INTEREST RATES: 1970 TO 1985

[Percent per year. Annual averages of monthly data, except as indicated. See also *Historical Statistics, Colonial Times to 1970*, series X 444-453]

TYPE	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Federal funds, effective rate.....	7.18	5.82	5.04	5.54	7.93	11.19	13.36	16.38	12.26	9.09	10.23	8.13
Commercial paper, 3-month <sup>1</sup> .....	(NA)	6.25	5.24	5.55	7.94	10.97	12.66	15.32	11.89	8.88	10.10	7.95
Prime rate charged by banks.....	7.91	7.86	6.84	6.82	9.06	12.67	15.26	18.87	14.86	10.79	12.04	9.93
Eurodollar deposits, 3-month <sup>2</sup> .....	8.52	7.03	5.58	6.03	8.78	11.96	14.00	16.79	13.12	9.57	10.75	8.27
Finance paper, 3-month <sup>2</sup> .....	7.18	6.15	5.20	5.49	7.80	10.47	11.49	14.08	11.23	8.70	9.73	7.77
Bankers acceptances, 90-day <sup>3</sup> .....	7.31	6.29	5.08	5.54	8.06	10.99	12.72	15.32	11.89	8.90	10.14	7.92
Large negotiable certificates of deposit, 3-month, secondary market.....	7.56	6.44	5.27	5.64	8.22	11.22	13.07	15.91	12.27	9.07	10.37	8.05
Federal Reserve discount rate <sup>4</sup> .....	5½-6	6-7½	5¼-6	5¼-6	6-9½	9½-12	10-13	12-14	8½-12	8½	8-9	7½-8
U.S. Government securities: <sup>5</sup>												
3-month Treasury bill.....	6.39	5.78	4.97	5.27	7.19	10.07	11.43	14.03	10.61	8.61	9.52	7.48
6-month Treasury bill.....	6.51	6.09	5.25	5.53	7.58	10.06	11.37	13.80	11.07	8.73	9.76	7.65
1-year Treasury bill.....	6.48	6.28	5.52	5.71	7.74	9.75	10.89	13.14	11.07	8.60	9.92	7.81
Prime 1-year municipals <sup>6</sup> .....	4.35	3.91	3.12	2.91	4.15	5.34	6.25	7.92	7.88	5.29	6.05	5.12

NA Not available. <sup>1</sup> Averages of daily offering rates of dealers. <sup>2</sup> Placed directly; averages of daily offering rates quoted by finance companies. <sup>3</sup> Averages of the most representative daily offering rates of dealers. Beginning Aug. 15, 1974, closing rates were used, and from Jan. 1, 1981, rates of top-rated banks only. <sup>4</sup> Federal Reserve Bank of New York, low and high. The discount rates for 1980 and 1981 do not include the surcharge applied to frequent borrowings by large institutions. The surcharge reached 3 percent in 1980 and 4 percent in 1981. Surcharge was eliminated in Nov. 1981. <sup>5</sup> Averages based on daily closing bid yields in secondary market, bank discount basis. <sup>6</sup> Averages based on quotations for one day each month. Source: Salomon Brothers, Inc., New York, NY, *An Analytical Record of Yields and Yield Spreads*.

Source: Except as noted, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly, and *Annual Statistical Digest*.

## NO. 831. FEDERAL RESERVE BANK OF NEW YORK—DISCOUNT RATES: 1974 TO 1986

[Percent per year. Rates for short-term adjustment credit. For rates applicable to other types of discount window credit, see source. See also *Historical Statistics, Colonial Times to 1970*, series X 454-456]

EFFECTIVE DATE	Rate	EFFECTIVE DATE	Rate	EFFECTIVE DATE	Rate	EFFECTIVE DATE	Rate
<b>1974:</b> Apr. 25.....	8	<b>1978:</b> Jan. 9.....	6½	<b>1980:</b> <sup>1</sup> Feb. 15.....	13	<b>1982:</b> July 20.....	11½
Dec. 9.....	7½	May 11.....	7	May 30.....	12	Aug. 2.....	11
		July 3.....	7½	June 13.....	11	Aug. 16.....	10½
<b>1975:</b> Jan. 10.....	7½	Aug. 21.....	7½	July 28.....	10	Aug. 27.....	10
Feb. 5.....	6½	Sept. 22.....	8	Sept. 26.....	11	Oct. 12.....	9½
Mar. 10.....	6	Oct. 16.....	8½	Nov. 17.....	12	Nov. 22.....	9
May 16.....	6	Nov. 1.....	9½	Dec. 5.....	13	Dec. 15.....	8½
<b>1976:</b> Jan. 19.....	5½	<b>1979:</b> July 20.....	10	<b>1981:</b> <sup>1</sup> May 5.....	14	<b>1984:</b> April 9.....	9
Nov. 22.....	5½	Aug. 17.....	10½	Nov. 2.....	13	Nov. 21.....	8½
<b>1977:</b> Aug. 31.....	5½	Sept. 19.....	11	Dec. 4.....	12	Dec. 24.....	8
Oct. 26.....	6	Oct. 8.....	12			<b>1985:</b> May 20.....	7½
						<b>1986:</b> March 7.....	7
						April 21.....	6½
						In effect, June 30, 1986.....	6½

<sup>1</sup> See table 830, footnote 4.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly, and *Annual Statistical Digest*.

### NO. 832. SELECTED TIME DEPOSITS AND OTHER ACCOUNTS AT INSURED COMMERCIAL BANKS— DEPOSITS AND INTEREST RATES: 1983 TO 1986

[Estimates based on data collected from a sample of about 550 banks]

TYPE OF DEPOSIT	AMOUNT OUTSTANDING (mil. dol.)				AVERAGE RATE PAID (percent)			
	1983, Dec.	1984, Dec.	1985, Dec.	1986, Mar.	1983, Dec.	1984, Dec.	1985, Dec.	1986, Mar.
"Super NOW" accounts <sup>1</sup>	28,769	34,686	44,545	122,500	7.30	7.01	5.99	5.65
Money market deposit accounts <sup>2</sup>	225,996	265,619	332,914	341,005	8.36	8.10	6.71	6.46
Money market certificates: <sup>3</sup>								
7-31 day	4,815	5,354	5,318	5,278	8.50	8.01	6.85	6.61
32-91 day	14,653	17,953	20,968	20,992	8.81	8.07	7.16	6.78
92-182 day	127,543	165,349	197,777	142,783	9.42	8.77	7.50	7.10
183 day-1 year	22,720	59,429	66,131	69,552	9.56	9.11	7.77	7.39
1-2 1/2 year	43,431	69,875	81,172	84,808	10.07	9.73	8.24	7.79
2 1/2 year or more	111,409	107,119	115,355	120,536	10.48	10.18	8.73	8.06
All IRA and Keogh Plan deposits	30,144	44,033	59,352	64,962	(NA)	(NA)	(NA)	(NA)
Retail repurchase agreements <sup>4</sup>	1,342	1,228	1,294	1,292	8.19	7.49	6.77	6.49

NA Not available. <sup>1</sup> Negotiable order of withdrawal accounts containing an agreement between depositor and depository such that some of all funds deposited are eligible to earn more than 5.25 percent. As of January 1, 1986 interest rate ceilings were removed from all NOW accounts. Beginning with the March 1986 data the "Super NOW" accounts category includes all NOW accounts, including those accounts which were subject to a 5.25 percent regulatory interest rate restriction prior to January 1, 1986. Estimates for NOW accounts beginning in March 1986 are based on reports of deposits. <sup>2</sup> Deposits with no minimum balance requirement and no required minimum maturity but institutions must reserve the right to require at least seven days' notice prior to withdrawal, no restrictions on depositor eligibility, or limitations on the amount of interest that may be paid; such accounts may allow up to six transfers per month, no more than three of which may be draft and may permit unlimited withdrawals by mail, messenger, or in person. Estimates based on reports of deposits. <sup>3</sup> All interest-bearing time certificates and open account time deposits with balances of less than \$100,000, including those held in IRAs and Keogh Plan deposits. <sup>4</sup> Retail repurchase agreements are in denominations of less than \$100,000 with maturities of less than 90 days that arise from the transfer of direct obligations of, or obligations fully-guaranteed as to principal and interest by, the U.S. Government or an agency thereof.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Statistical Release H6*, monthly.

### NO. 833. BOND YIELDS, STOCK YIELDS, AND MORTGAGE RATES: 1970 TO 1985

[Percent per year. Annual averages of monthly data, except as indicated. See also *Historical Statistics, Colonial Times to 1970*, series X 474-491]

TYPE	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985
U.S. Treasury, constant maturities: <sup>1 2</sup>											
3-year	7.29	7.49	6.69	8.29	9.72	11.55	14.44	12.92	10.45	11.89	9.64
5-year	7.38	7.77	6.99	8.32	9.52	11.48	14.24	13.01	10.80	12.24	10.13
10-year	7.35	7.98	7.42	8.41	9.44	11.46	13.91	13.00	11.10	12.44	10.62
20-year	6.86	8.19	7.67	8.48	9.33	11.39	13.72	12.92	11.34	12.48	10.97
U.S. Govt., long-term bonds <sup>2 3</sup>	6.58	6.98	7.08	7.89	8.74	10.81	12.87	12.23	10.84	11.99	10.75
State and local govt. bonds, Aaa <sup>4</sup>	6.12	6.42	5.20	5.52	5.89	7.84	10.42	10.66	8.80	9.61	8.60
State and local govt. bonds, Baa <sup>4</sup>	6.75	7.62	6.12	6.27	6.72	9.00	11.75	12.48	10.17	10.37	9.59
High-graded municipal bonds (Standard & Poor's) <sup>5</sup>	6.51	6.89	5.56	5.90	6.39	8.51	11.23	11.57	9.47	10.15	9.18
Municipal (Bond Buyer, 20 bonds)	6.35	7.05	5.68	6.03	6.52	8.59	11.33	11.66	9.51	10.10	9.11
Corporate Aaa seasoned <sup>4</sup>	8.04	8.83	8.02	8.73	9.63	11.94	14.17	13.79	12.04	12.71	11.37
Corporate Baa seasoned <sup>4</sup>	9.11	10.61	8.97	9.49	10.69	13.67	16.04	16.11	13.55	14.19	12.72
Corporate Aaa utility bonds <sup>6</sup>	8.72	9.17	8.12	8.90	9.92	12.68	15.65	14.71	12.25	13.40	11.65
Corporate, by years to maturity: <sup>7</sup>											
5 years	8.10	7.70	7.25	7.75	9.40	12.80	13.25	13.76	9.90	10.20	10.40
10 years	8.00	8.00	7.80	7.98	9.35	12.40	13.00	13.99	10.55	11.80	11.60
20 years	7.60	8.35	7.75	8.20	9.08	12.30	13.00	14.00	11.00	12.60	12.50
30 years	7.60	8.35	7.95	8.25	9.10	12.30	13.00	14.00	11.00	12.60	12.75
Corporate (Moody's) <sup>4</sup>	8.51	9.57	8.43	9.07	10.12	12.75	15.06	14.94	12.78	13.49	12.05
Industrials (38 bonds) <sup>8</sup>	8.26	9.25	8.28	8.90	9.85	12.35	14.50	14.54	12.25	13.21	11.80
Railroads (13 bonds) <sup>10</sup>	8.77	9.39	8.13	8.64	9.60	11.48	13.22	13.68	12.08	13.07	11.94
Public utilities (40 bonds)	8.68	9.88	8.58	9.22	10.39	13.15	15.62	15.33	13.31	14.03	12.29
Stocks (Standard & Poor's): <sup>9</sup>											
Preferred (10 stocks) <sup>11</sup>	7.22	8.36	7.61	8.25	9.11	10.60	12.35	12.53	11.02	11.59	10.44
Common: Composite (500 stocks)	3.83	4.31	4.62	5.28	5.47	5.26	5.20	5.81	4.40	4.64	4.25
Industrials (400 stocks)	3.62	3.96	4.43	5.06	5.20	4.95	4.90	5.48	4.04	4.05	3.76
Home mortgages:											
FHA insured, secondary market <sup>12</sup>	9.03	9.19	8.88	9.70	10.87	13.44	16.31	15.31	13.11	13.82	12.23
Conventional, new-home <sup>13</sup>	8.52	9.10	8.95	9.68	11.15	13.95	16.52	15.79	13.43	13.80	12.28
Conventional, existing-home <sup>13</sup>	8.56	9.14	9.00	9.70	11.16	13.95	16.55	15.82	13.45	13.81	12.29

<sup>1</sup> Yields on the more actively traded issues adjusted to constant maturities by the U.S. Treasury. <sup>2</sup> Yields are based on closing bid prices quoted by at least five dealers. <sup>3</sup> Averages (to maturity or call) for all outstanding bonds neither due nor callable in less than 10 years, including several very low yielding "flower" bonds. <sup>4</sup> Source: Moody's Investors Service, New York, NY.

<sup>5</sup> Source: Standard & Poor's Corp., New York, NY, *Standard & Poor's Outlook*, weekly. <sup>6</sup> Based on first trading day of each month, deferred call, new issue estimate. Source: Salomon Brothers, Inc., New York, NY, *An Analytical Record of Yields and Yield Spreads*. <sup>7</sup> Source: Scudder, Stevens & Clark, New York, NY, unpublished data. <sup>8</sup> The Aaa public utility average was suspended on Jan. 17, 1984 because of a lack of appropriate issues. The average corporate does not include Aaa utilities from suspended on Jan. 17 to Oct. 12. The Aaa utility average was reinstated on Oct. 12. Thirty public utility bonds were used during the period Jan. 17 to Oct. 12, 1984. <sup>9</sup> Covers 40 bonds for period 1970-1983. <sup>10</sup> Covers 23 bonds for period 1970-1981, 15 bonds for 1982, 17-Oct. 12, 1984. <sup>11</sup> Yields based on 10 stocks, 4 yields. Issues converted to a price equivalent to \$100 par and a 7 percent annual dividend before averaging. <sup>12</sup> Averages based on quotations for 1 day each month as compiled by FHA. <sup>13</sup> Primary market.

Source: Except as noted, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

## NO. 834. SECURITY PRICES: 1970 TO 1985

[Annual averages of monthly figures, except as noted. See also *Historical Statistics, Colonial Times to 1970*, series X 492-498]

CLASS OR ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
<b>Bond prices (dollars per \$100 bond):</b>										
Standard & Poor's: Municipal <sup>1</sup>	72.3	68.9	77.9	73.4	57.4	43.2	41.8	51.4	48.0	53.0
Dow Jones and Co., Inc.: <sup>2</sup>										
Yearly high	69.7	69.7	90.9	86.1	76.8	65.8	71.5	77.8	72.9	83.7
Yearly low	64.4	66.2	84.5	73.4	61.0	55.0	55.7	69.4	64.8	72.3
<b>Stock prices:</b>										
Standard & Poor's common index (500 stocks) (1941-43=10) <sup>3</sup>	83.2	86.2	96.0	103.0	118.7	128.0	119.7	160.4	160.5	186.8
Industrial	91.3	96.6	106.2	114.8	134.5	144.2	133.6	180.5	181.3	207.8
N.Y. Stock Exchange common stock index (Dec. 31, 1965=50):										
Composite	45.7	45.7	53.7	58.3	68.1	74.0	68.9	92.6	92.5	108.1
Yearly high <sup>4</sup>	52.4	51.2	60.4	63.4	81.0	79.1	82.4	99.6	98.1	121.9
Yearly low <sup>4</sup>	37.7	37.1	48.4	53.9	55.3	65.0	58.8	79.8	85.1	94.6
Industrial	48.0	50.5	56.3	64.8	78.6	85.4	78.2	107.5	108.0	123.8
Transportation	32.1	31.1	43.3	47.3	60.5	72.6	60.4	89.4	85.6	104.1
Utility	37.2	31.5	39.2	38.2	37.3	38.9	39.8	47.0	46.4	56.7
Finance	54.6	47.1	56.7	61.4	64.3	73.5	72.0	95.3	89.3	114.2
American Stock Exchange Market Value Index (Aug. 31, 1973=50):										
NASDAQ OTC composite <sup>5</sup>	48.3	41.6	72.2	97.8	150.6	171.8	141.3	218.5	208.0	229.1
Industrial	(NA)	77.6	118.0	151.1	202.3	195.9	232.4	278.6	247.4	325.0
Transportation	(NA)	81.0	126.9	175.2	281.4	228.3	273.6	323.7	260.7	330.2
Insurance	(NA)	80.9	127.2	162.0	186.8	194.3	226.4	257.6	283.1	382.0
Banks	(NA)	72.4	102.3	108.2	118.4	143.1	158.4	203.8	229.8	349.4
Dow Jones and Co., Inc., total (65 stocks) <sup>6</sup>	243.9	247.3	283.6	293.5	328.2	364.6	345.4	472.2	463.1	541.6
Industrial (30 stocks)	753.2	802.8	820.2	844.4	891.4	932.9	884.4	1,190.3	1,178.5	1,328.2
Transportation (20 stocks)	152.4	163.4	222.6	237.8	307.2	398.6	359.8	544.6	513.8	645.1
Public utility (15 stocks)	108.8	79.8	104.6	104.6	110.4	108.6	112.0	130.0	131.8	157.6
Wilshire 5000 equity index <sup>7</sup> (Dec. 31, 1980=1404.586)	830.3	763.8	913.3	1,028.9	1,220.7	1,343.7	1,233.7	1,691.5	1,644.6	1,923.8
Standard & Poor's:										
Dividend-price ratio (percent)	3.83	4.31	5.28	5.47	5.26	5.20	5.81	4.40	4.64	4.25
Earnings-price ratio (percent)	6.45	9.14	11.96	13.46	12.66	11.87	11.30	8.02	10.02	8.15

NA Not available. <sup>1</sup> Derived from average yields on basis of assumed 4 percent, 20-year bond; Wednesday closing prices. <sup>2</sup> Source: Dow Jones and Co., Inc., New York, NY. Effective June 30, 1976, the Dow Jones averages of 20 income railroad bonds were discontinued. With the dropping of the rail averages, which had been part of the Dow-Jones 40-bond average, the 40-bond average became a 20-bond average consisting of 10 utility bonds and 10 industrial bonds. <sup>3</sup> Effective July 1976, the index includes 400 industrial stocks (formerly 425), 20 transportation (formerly 15 rail), 40 public utility (formerly 60), and 40 financial stocks, not previously covered. <sup>4</sup> Source: New York Stock Exchange, Inc., New York, NY, *Fact Book*, annual. <sup>5</sup> Source: National Association of Securities Dealers, Washington, DC, *Fact Book*, annual. OTC=over-the-counter. <sup>6</sup> Source: U.S. Bureau of Economic Analysis. Based on stocks listed on the New York Stock Exchange. <sup>7</sup> Represents return on the market value of all common equity securities for which daily pricing is available. For 1970-1979, annual average of end of month figures; thereafter, annual average of daily figures. Source: Wilshire Associates, Santa Monica, CA, releases. <sup>8</sup> Represents Dec. 31, 1970.

Source: Except as noted, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

## NO. 835. NEW SECURITIES PUBLICLY OFFERED BY BUSINESS, BY TYPE OF SECURITY AND ISSUER: 1975 TO 1985

[In millions of dollars. Estimated gross proceeds derived by multiplying principal amounts or number of units by offering prices. Covers all new securities publicly offered for cash, for the account of the issuer, with a maturity of more than one year, registered with the Securities and Exchange Commission under the Securities Act of 1933 or exempted from registration pursuant to Regulation A. See table 443 for new issues of State and local government securities. See also *Historical Statistics, Colonial Times to 1970*, series X 499-500 and X 505-506]

SECURITY AND ISSUER	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>Total</b>	<b>40,978</b>	<b>35,662</b>	<b>32,265</b>	<b>28,832</b>	<b>36,117</b>	<b>65,404</b>	<b>64,481</b>	<b>73,291</b>	<b>102,406</b>	<b>85,853</b>	<b>127,698</b>
<b>Security:</b>											
Bonds and notes	31,094	25,425	21,965	19,218	24,943	42,502	37,293	44,719	49,485	59,483	85,828
Preferred stock	3,089	2,236	2,430	1,749	2,068	3,476	1,897	4,953	7,693	4,219	6,224
Common stock <sup>1</sup>	6,795	8,001	7,870	7,865	9,106	19,428	25,491	23,619	45,228	22,151	35,646
<b>Issuer:</b>											
Manufacturing	14,166	8,876	5,004	4,531	6,766	20,424	14,696	13,771	22,958	14,487	25,558
Extractive	1,238	846	1,764	2,014	2,418	4,352	7,975	7,340	8,484	5,522	4,499
Electric, gas, water	13,963	11,743	11,128	9,207	10,133	13,981	13,075	16,529	12,749	7,523	9,914
Communication	3,605	3,259	3,686	2,960	4,486	6,872	5,871	3,899	5,527	2,018	3,854
Transportation	1,020	1,785	730	333	848	1,269	1,433	1,800	4,007	1,638	4,036
Financial and real estate <sup>2</sup>	5,471	7,595	8,524	8,041	9,301	13,476	16,508	23,342	35,729	45,150	65,356
Commercial and other	1,515	1,558	1,429	1,746	2,165	5,030	4,923	6,610	12,952	9,535	14,481

<sup>1</sup> Includes limited partnership and other equity. <sup>2</sup> Includes sales and consumer finance.Source: U.S. Securities and Exchange Commission, *SEC Monthly Statistical Review*.

**NO. 836. SALES OF STOCKS AND OPTIONS ON REGISTERED EXCHANGES: 1970 TO 1985**

[Excludes over-the-counter trading. See also *Historical Statistics, Colonial Times to 1970*, series X517-530]

EXCHANGE	Unit	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
<b>Market value of all sales, all exchanges <sup>1,2</sup></b>	<b>Bil. dol.</b>	<b>136</b>	<b>173</b>	<b>271</b>	<b>324</b>	<b>522</b>	<b>532</b>	<b>657</b>	<b>1,023</b>	<b>1,004</b>	<b>1,260</b>
New York.....	Bil. dol.	108	143	211	252	398	416	515	816	815	1,024
American.....	Bil. dol.	15	6	19	27	47	40	34	48	32	38
Midwest.....	Bil. dol.	5	7	11	12	21	25	35	60	62	79
Chicago Option.....	Bil. dol.	—	6	14	14	28	22	32	39	35	38
Pacific.....	Bil. dol.	5	5	10	9	13	13	21	31	31	40
Philadelphia.....	Bil. dol.	3	3	5	7	11	11	14	20	19	23
<b>STOCKS <sup>3</sup></b>											
Shares sold, all exchanges <sup>2</sup> .....	Million.....	4,539	6,226	9,548	10,850	15,488	15,910	22,414	30,146	30,456	37,046
New York.....	Million.....	3,213	5,056	7,617	8,675	12,390	12,843	18,211	24,253	25,160	30,222
American.....	Million.....	879	541	989	1,161	1,659	1,472	1,550	2,209	1,584	2,115
Midwest.....	Million.....	149	252	343	352	598	735	1,144	1,562	1,843	2,274
Pacific.....	Million.....	165	199	366	355	435	457	810	1,070	1,006	1,352
Market value, all exchanges <sup>2</sup> .....	Bil. dol.	131	157	251	300	478	491	603	957	951	1,200
New York.....	Bil. dol.	103	134	210	251	398	416	514	815	814	1,023
American.....	Bil. dol.	14	6	15	21	35	28	20	31	21	26
Midwest.....	Bil. dol.	5	7	10	12	21	25	35	60	62	79
Pacific.....	Bil. dol.	5	5	9	8	11	11	18	27	28	37
<b>OPTIONS <sup>4</sup></b>											
Contracts traded, all exchanges <sup>2</sup> .....	Million.....	(NA)	18	61	69	97	109	137	149	197	233
Chicago Option.....	Million.....	(NA)	14	34	35	53	58	76	82	123	149
American.....	Million.....	(NA)	4	18	19	29	35	39	39	40	49
Market value of contracts traded, all exchanges <sup>2</sup> .....	Bil. dol.	(NA)	6.4	19.7	23.2	45.8	41.7	53.7	64.2	53.0	58.1
Chicago Option.....	Bil. dol.	(NA)	6.3	14.3	13.8	27.9	22.4	32.3	39.4	34.9	38.4
American.....	Bil. dol.	(NA)	(NA)	3.6	6.4	12.5	13.8	14.3	15.8	10.5	11.6
Option exercises:											
Number of contracts <sup>5</sup> .....	Million.....	(NA)	.3	3.1	2.5	4.9	7.4	9.2	13.6	11.9	8.9
Value <sup>5</sup> .....	Bil. dol.	(NA)	1.3	7.5	10.9	20.4	34.6	37.1	65.1	55.6	49.2

— Represents zero. NA Not available.

<sup>1</sup> Includes market value of rights and warrants and, through 1975, bond sales, not shown separately.

<sup>2</sup> Includes other registered exchanges, not shown separately.

<sup>3</sup> Includes voting trust certificates, American Depositary Receipts, and certificate of deposit for stocks.

<sup>4</sup> Includes non-equity options as of October 1982.

<sup>5</sup> Prior to 1977, only call options were traded.

Source: U.S. Securities and Exchange Commission, *SEC Monthly Statistical Review*.

**NO. 837. VOLUME OF TRADING ON NEW YORK STOCK EXCHANGE: 1970 TO 1985**

[Round lot: A unit of trading or a multiple thereof. On the NYSE the unit of trading is generally 100 shares in stocks. For some inactive stocks, the unit of trading is 10 shares. **Odd lot:** An amount of stock less than the established 100-share unit or 10-share unit of trading]

ITEM	Unit	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>Shares traded.....</b>	<b>Million.....</b>	<b>3,124</b>	<b>4,839</b>	<b>5,419</b>	<b>7,371</b>	<b>8,336</b>	<b>11,562</b>	<b>12,049</b>	<b>16,869</b>	<b>21,846</b>	<b>23,309</b>	<b>27,774</b>
Round lots.....	Million.....	2,937	4,693	5,274	7,205	8,156	11,352	11,854	16,458	21,590	23,071	27,511
Average daily shares.....	Million.....	11.6	18.6	20.9	28.6	32.2	44.8	46.9	65.1	85.3	91.2	109.2
High day.....	Million.....	21.3	35.2	35.3	66.4	81.6	84.3	92.9	149.4	129.4	236.6	181.0
Low day.....	Million.....	6.7	8.7	10.6	7.8	18.3	16.1	23.9	36.8	53.0	46.4	62.1
By size: <sup>1</sup>												
At 100-900 shares.....	Percent.....	(NA)	42.1	33.4	30.2	27.5	24.7	21.1	16.2	14.6	11.3	10.6
At 1,000-4,800 shares.....	Percent.....	(NA)	31.4	32.6	33.9	33.7	32.2	31.0	28.5	26.7	25.1	24.1
At 5,000-9,900 shares.....	Percent.....	(NA)	8.7	10.3	10.9	11.4	11.4	12.1	12.8	12.7	13.8	13.8
At 10,000 shares over <sup>2</sup> .....	Percent.....	(NA)	17.9	23.7	25.0	27.4	31.7	35.8	42.5	46.0	49.8	51.5
Odd lots.....	Million.....	186	146	145	166	180	209	186	211	256	238	263
<b>Value of shares traded.....</b>	<b>Bil. dol.</b>	<b>102.5</b>	<b>131.7</b>	<b>155.3</b>	<b>205.6</b>	<b>244.5</b>	<b>382.4</b>	<b>396.1</b>	<b>495.1</b>	<b>775.3</b>	<b>773.4</b>	<b>980.8</b>
Round lots.....	Bil. dol.	95.3	126.7	150.2	199.9	238.2	374.9	389.2	488.4	765.3	764.7	970.5
Odd lots.....	Bil. dol.	7.2	5.0	5.1	5.7	6.3	7.5	6.9	6.7	10.1	8.7	10.3
<b>Bond volume <sup>3</sup>.....</b>	<b>Mil. dol.</b>	<b>4,495</b>	<b>5,178</b>	<b>4,646</b>	<b>4,554</b>	<b>4,088</b>	<b>5,190</b>	<b>5,733</b>	<b>7,155</b>	<b>7,572</b>	<b>6,982</b>	<b>9,046</b>
Daily average.....	Mil. dol.	17.7	20.5	18.4	18.1	16.2	20.5	22.7	28.3	29.9	27.6	35.9

NA Not available. <sup>1</sup> Share volume of reported trades by size (percent of total) on New York Stock Exchange.

<sup>2</sup> Includes bunched orders at the opening and re-opening of trading. <sup>3</sup> Par value.

Source: New York Stock Exchange, Inc., New York, NY, *Fact Book*, annual.

## No. 836. SECURITIES LISTED ON N.Y. STOCK EXCHANGE: 1970 TO 1985

[As of December 31, except cash dividends are for calendar year]

ITEM	Unit	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>Bonds:</b>												
Face value.....	Bil. dol.	135	334	497	509	526	602	681	793	965	1,084	1,327
Market value.....	Bil. dol.	113	315	480	485	460	508	574	766	888	1,022	1,339
Average price.....	Percent	83.60	91.89	96.52	91.37	87.36	84.41	84.24	96.67	93.04	94.29	100.90
<b>Stocks:</b>												
Shares.....	Billion	18.1	22.5	28.1	27.6	30.0	33.7	38.3	39.5	45.1	49.1	52.4
Market value.....	Bil. dol.	636	685	797	823	961	1,243	1,144	1,305	1,584	1,586	1,950
Average price.....	Dollars	39.61	30.48	30.53	29.84	31.99	36.87	29.87	33.03	35.11	32.31	37.20
<b>Cash dividends on</b>												
common stock.....	Bil. dol.	19.8	26.9	36.3	41.2	46.9	53.1	60.6	62.2	67.1	68.2	74.2
Industrial.....	Bil. dol.	13.6	17.6	23.9	26.6	30.3	34.5	38.7	39.4	42.1	(NA)	(NA)
Transportation.....	Bil. dol.	.5	.6	.8	.9	1.0	1.2	1.3	1.0	.9	(NA)	(NA)
Utilities.....	Bil. dol.	4.5	6.7	9.0	10.7	12.2	13.3	15.8	16.9	18.5	(NA)	(NA)
Finance.....	Bil. dol.	1.1	1.9	2.6	2.9	3.5	4.2	4.9	5.0	5.6	(NA)	(NA)

NA Not available.

Source: New York Stock Exchange, Inc., New York, NY, *Fact Book*, annual.

## No. 839. STOCK OWNERSHIP—CHARACTERISTICS OF SHAREOWNERS: 1970 TO 1985

[In thousands. Represents all publicly owned issues of common and preferred stocks including stock mutual funds. Based on national probability samples; see source for detailed explanation]

CHARACTERISTIC	1970	1975	1980	1983	1985	CHARACTERISTIC	1970	1975	1980	1983	1985
<b>Total</b> <sup>1</sup>	30,850	25,270	30,200	42,360	47,040	<b>Income:</b> <sup>4</sup>					
<b>Male</b> .....	15,689	12,698	16,666	20,664	23,699	Under \$5,000.....	2,389	780	1,742	1,460	2,151
<b>Female</b> .....	15,161	12,598	14,534	21,496	23,341	\$5,000-\$9,999.....	5,779	2,636			
<b>Age:</b>						\$10,000-\$14,999.....	8,346	4,552	3,180	2,596	1,193
Under 21 years.....	2,221	1,818	2,308	2,749	2,260	\$15,000-\$24,999.....	7,670	8,778	6,930	8,579	7,116
21-34 years.....	4,500	2,838	6,407	10,552	11,083	\$25,000-\$49,999.....		5,426	11,623	17,168	21,369
35-44 years.....	5,801	3,976	5,925	8,346	10,882	\$50,000 and over.....	4,114	1,216	3,982	7,918	11,321
45-54 years.....	7,558	5,675	5,456	6,586	7,899	<b>Residence by</b>					
55-64 years.....	6,084	5,099	5,144	6,850	8,217	<b>MSA size:</b> <sup>5</sup>					
65 years and over ..	4,330	5,800	4,589	7,277	6,589	Under 100,000.....	175	328	204	262	307
<b>Education:</b>						100,000-249,999.....	2,245	2,059	1,883	3,060	3,448
High school: <sup>2</sup>						250,000-499,999.....	2,686	2,691	2,921	3,962	4,293
3 years or less.....	3,566	1,621	1,746	2,356	2,513	500,000-999,999.....	3,712	3,257	4,345	6,555	6,950
4 years.....	8,697	6,580	5,737	8,788	7,869	1,000,000 and over.....	14,891	11,893	15,447	21,730	24,751
College: <sup>2</sup>						<b>Nonmetropolitan areas.....</b>	6,913	4,978	5,400	6,791	7,291
1-3 years.....	5,867	5,301	9,353	13,529	13,937						
4 years or more ..	9,999	9,886	10,813	14,375	19,854						
Minors <sup>3</sup> .....	2,221	1,818	2,308	2,749	2,260						

<sup>1</sup> Includes small number of shareowners not distributed by breakdown. <sup>2</sup> Persons 21 years old and over. <sup>3</sup> Shareowners whose stockholdings are registered in accordance with the Gifts to Minors Statutes. <sup>4</sup> Adult shareowners only.<sup>5</sup> MSA=Metropolitan statistical area. Prior to 1983, designation was SMSA=standard metropolitan statistical area. For definition, see Appendix II.Source: New York Stock Exchange, Inc., New York, NY, *Shareownership*, periodic.

## No. 840. COMMODITY FUTURES TRADING ON U.S. EXCHANGES—VOLUME OF TRADING: 1970 TO 1985

[In thousands. 1970 for year ending June 30; thereafter, for years ending Sept. 30]

COMMODITY	1970	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>Number of contracts traded.....</b>	12,398	41,023	53,222	74,309	82,691	101,124	107,644	136,077	148,822	152,589
<b>Grain</b> .....	2,182	7,928	10,228	13,023	16,267	19,808	14,885	17,794	15,899	10,726
Oilseeds/products.....	3,677	13,475	14,037	16,570	15,692	20,315	15,763	19,823	23,489	14,883
Livestock/products.....	3,432	5,833	8,502	11,529	11,808	9,804	10,968	11,063	8,429	7,925
Foodstuffs.....	1,961	2,447	2,335	2,360	5,314	4,549	3,580	4,838	4,690	4,464
Industrial materials.....	55	1,677	1,786	2,374	3,560	3,290	3,605	4,690	6,214	7,701
Metals.....	1,110	8,864	13,394	21,879	14,099	17,870	19,307	26,316	22,447	18,383
Financial instruments.....	-	605	1,594	4,571	10,213	20,091	31,251	40,155	51,003	72,127
Currencies.....	-	393	1,346	2,004	3,719	5,398	8,284	11,398	16,661	16,377

- Represents zero.

Source: U.S. Commodity Futures Trading Commission, *Annual Report*.

## NO. 841. MUTUAL FUNDS—NET ASSETS, SALES, AND REDEMPTIONS: 1970 TO 1985

[In billions of dollars, except number of funds. See also *Historical Statistics, Colonial Times to 1970*, series X 536-539]

TYPE OF FUND	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Number of funds.....	361	426	452	477	505	524	564	669	857	1,026	1,352	1,531
Assets.....	47.6	45.8	51.0	48.5	55.8	94.5	134.7	241.4	296.6	292.9	370.7	495.5
Money market funds.....	(X)	3.6	3.4	3.5	10.9	45.2	74.4	181.9	206.6	162.5	209.7	207.5
Equity funds.....	45.1	37.5	39.2	34.1	32.7	35.9	44.4	41.2	53.6	77.0	78.1	109.6
Income and bond funds.....	2.5	4.7	7.8	8.4	9.3	10.1	11.1	11.0	15.8	22.0	38.3	102.7
Municipal bond funds.....	(X)	(X)	.5	2.3	2.6	3.0	2.9	3.1	7.4	14.6	20.8	39.3
Limited maturity municipal bonds <sup>1</sup> .....	(X)	(X)	(X)	(X)	(X)	(X)	1.9	4.2	13.2	16.8	23.8	36.3
Sales.....	4.6	10.1	13.7	17.1	37.2	119.3	247.5	472.2	627.0	547.8	680.1	953.8
Money market funds.....	(X)	6.8	9.4	10.7	30.5	111.9	232.2	451.9	581.8	463.0	572.0	730.1
Equity funds.....	4.2	2.6	2.7	2.4	2.8	3.1	5.6	6.0	8.3	22.4	18.2	26.8
Income and bond funds.....	.4	.7	1.2	1.6	2.0	2.0	2.6	2.3	4.0	8.8	17.8	66.1
Municipal bond funds.....	(X)	(X)	.5	2.1	1.8	1.7	1.8	1.5	3.5	9.1	9.8	19.4
Limited maturity municipal bonds <sup>1</sup> .....	(X)	(X)	(X)	(X)	(X)	(X)	5.3	10.5	20.4	44.5	62.3	109.4
Redemptions.....	3.0	9.6	16.4	16.7	31.5	85.8	216.5	362.6	558.4	585.8	607.0	864.9
Money market funds.....	(X)	5.9	9.6	10.7	24.3	78.4	204.5	346.7	559.6	508.7	531.0	732.3
Equity funds.....	2.8	3.3	6.0	4.7	5.1	5.7	5.7	5.1	5.2	9.3	10.4	17.3
Income and bond funds.....	.2	.4	.8	.9	1.1	1.4	1.5	1.6	1.7	3.1	5.6	12.2
Municipal bond funds.....	(X)	(X)	(2)	.5	1.1	.9	1.0	.8	.7	2.3	4.1	4.3
Limited maturity municipal bonds <sup>1</sup> .....	(X)	(X)	(X)	(X)	(X)	(X)	3.8	8.3	21.2	42.4	55.9	98.8

X Not applicable. Z Less than \$50 million. <sup>1</sup> The average maturity of the portfolio is generally less than two years.Source: Investment Company Institute, Washington, DC, *Mutual Fund Fact Book*, annual.

## NO. 842. U.S. LIFE INSURANCE COMPANIES—SUMMARY: 1970 TO 1985

[As of December 31 or calendar year, as applicable. Covers domestic and foreign business of U.S. companies. See also *Historical Statistics, Colonial Times to 1970*, series X 879 and X 890-917]

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
U.S. companies.....	Number.....	1,780	1,746	1,840	1,895	1,958	1,991	2,060	2,117	2,193	2,260
Sales <sup>1</sup> .....	Bil. dol.....	206.8	316.5	437.9	526.8	654.7	1,138.6	919.9	1,278.9	1,390.2	1,629.0
Ordinary.....	Bil. dol.....	134.8	207.1	304.2	369.1	461.5	700.1	661.1	971.9	1,074.3	1,252.5
Group <sup>1</sup> .....	Bil. dol.....	65.4	102.7	127.7	182.4	189.6	436.0	256.9	305.5	314.9	375.7
Industrial.....	Bil. dol.....	6.6	6.7	6.0	5.3	3.6	2.5	1.9	1.5	1.0	.8
Income.....	Bil. dol.....	49.1	78.0	108.2	119.1	130.9	151.9	170.0	176.0	206.1	234.0
Life insurance premiums.....	Bil. dol.....	21.7	29.3	36.6	39.1	40.8	46.3	50.8	50.3	51.3	60.1
Percent of total.....	Percent.....	44.2	37.6	33.8	32.8	31.2	30.5	29.9	28.6	24.9	25.7
Annuity considerations.....	Bil. dol.....	3.7	10.2	16.3	17.9	22.4	27.8	34.6	30.5	42.8	53.9
Health insurance premiums.....	Bil. dol.....	11.4	19.1	25.8	27.9	29.4	31.8	35.0	38.2	40.7	41.8
Investment and other.....	Bil. dol.....	12.3	19.4	29.4	34.2	38.3	46.2	49.6	57.0	71.3	78.2
Debitments.....	Bil. dol.....	39.0	58.2	72.6	81.1	88.2	101.8	113.3	123.5	138.5	151.8
Payments to policyholders <sup>2</sup> .....	Bil. dol.....	25.6	38.1	47.8	53.7	59.0	65.1	71.2	80.9	89.8	95.7
Percent of total.....	Percent.....	65.8	65.5	65.8	66.2	66.9	63.9	62.8	65.5	64.8	63.0
Death payments.....	Bil. dol.....	7.2	9.3	11.1	11.8	12.9	13.6	14.5	16.8	17.6	18.5
Matured endowments.....	Bil. dol.....	1.0	1.0	.9	.9	.8	.7	.6	.8	.7	.8
Annuity payments.....	Bil. dol.....	1.7	3.2	5.1	6.6	7.4	9.6	10.3	12.7	18.0	19.7
Policy dividends.....	Bil. dol.....	3.8	5.1	6.8	7.6	8.1	9.3	9.6	10.8	11.4	12.4
Surrender values.....	Bil. dol.....	2.9	3.8	4.5	5.5	6.4	7.1	8.8	12.5	14.5	15.9
Disability benefits.....	Bil. dol.....	.2	.4	.5	.8	.5	.6	.5	.5	.4	.5
Commissions, expenses, etc.....	Bil. dol.....	12.9	19.4	23.7	25.9	27.8	35.1	40.3	40.7	46.0	53.1
Dividends to stockholders.....	Bil. dol.....	.5	.7	1.1	1.5	1.4	1.6	1.8	1.9	2.7	3.0
Taxes, licenses and fees.....	Bil. dol.....	2.2	3.5	5.1	5.5	4.8	4.2	4.4	4.3	6.1	7.8
Federal income taxes.....	Bil. dol.....	1.2	1.9	3.0	3.3	2.6	1.8	1.6	1.2	2.8	4.1
BALANCE SHEET											
Assets.....	Bil. dol.....	207.3	289.3	390.0	432.2	479.2	525.8	588.2	654.9	723.0	825.9
Government securities.....	Bil. dol.....	11.1	16.2	26.6	29.7	33.0	39.5	55.5	76.6	99.8	124.6
Corporate securities.....	Bil. dol.....	88.5	133.9	191.6	208.8	227.0	241.5	268.5	297.0	322.5	374.3
Percent of total assets.....	Percent.....	42.7	46.3	49.1	48.3	47.4	45.9	45.7	45.3	44.6	45.3
Bonds.....	Bil. dol.....	73.1	105.6	156.0	169.0	179.6	193.8	212.8	232.1	259.1	296.8
Stocks.....	Bil. dol.....	15.4	28.1	35.5	39.8	47.4	47.7	55.7	64.9	63.4	77.5
Mortgages.....	Bil. dol.....	74.4	89.2	106.2	118.4	131.1	137.7	142.0	151.0	158.7	171.8
Real estate.....	Bil. dol.....	6.3	9.6	11.8	13.0	15.0	18.3	20.6	22.2	25.7	28.8
Policy loans.....	Bil. dol.....	16.1	24.5	30.1	34.8	41.4	48.7	53.0	54.1	54.5	54.4
Other.....	Bil. dol.....	10.9	16.9	23.7	27.6	31.7	40.1	48.6	54.0	63.8	72.0
Interest earned on assets <sup>3</sup> .....	Percent.....	5.30	6.36	7.31	7.73	8.02	8.57	8.91	8.98	9.45	8.63
Liabilities <sup>2</sup> .....	Bil. dol.....	189.9	268.7	363.7	402.3	444.6	488.4	546.7	608.5	672.8	769.1
Policy reserves <sup>2,4</sup> .....	Bil. dol.....	187.8	237.0	318.5	351.8	390.4	428.8	479.4	532.4	584.2	665.3
Annuities.....	Bil. dol.....	48.9	80.8	131.1	153.0	181.5	209.1	252.4	296.5	341.7	405.9
Group.....	Bil. dol.....	34.0	59.9	98.7	115.4	140.4	161.0	191.9	221.7	254.6	303.0
Individual <sup>5</sup> .....	Bil. dol.....	14.9	20.9	32.5	36.6	41.0	48.1	60.5	74.8	87.1	102.9
Life insurance.....	Bil. dol.....	115.4	150.1	177.7	188.2	197.9	207.0	213.8	221.0	225.9	235.6
Health insurance.....	Bil. dol.....	3.5	6.3	9.6	10.4	11.0	11.9	13.2	15.0	16.6	18.8
Capital and surplus <sup>2</sup> .....	Bil. dol.....	17.3	20.6	26.2	30.0	34.4	37.4	41.5	46.4	50.4	56.8

<sup>1</sup> Includes Servicemen's Group Life Insurance of \$16.8 billion in 1970, \$1.7 billion in 1975, and \$45.6 billion in 1981, as well as \$84.4 billion of Federal Employees' Group Life Insurance in 1981. <sup>2</sup> Includes operations of accident and health departments of life insurance companies. <sup>3</sup> Net rate. <sup>4</sup> Includes other obligations not shown separately. <sup>5</sup> Includes reserves for supplementary contracts with and without life contingencies.

Source: American Council of Life Insurance, Washington, DC, *Life Insurance Fact Book*, and unpublished data.

## NO. 843. U.S. LIFE INSURANCE COMPANIES—NEW LONG-TERM INVESTMENTS: 1970 TO 1985

[In billions of dollars, except percent. Long-term investments are investments of over 1 year in length. Minus sign (—) indicates decrease]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Total .....	23.9	35.5	42.5	55.4	66.6	68.8	72.6	77.9	83.7	110.5	169.9	202.5	295.3
Annual percent change <sup>1</sup> .....	—3	10.4	19.7	30.2	20.3	3.2	5.6	7.3	7.4	32.1	53.7	19.2	45.8
Government securities .....	.8	1.5	3.7	7.3	7.5	6.5	6.9	7.0	10.6	24.3	48.1	62.9	99.9
Corporate securities .....	10.9	16.1	22.5	31.7	37.8	36.0	33.5	36.4	42.5	58.8	86.9	104.0	144.6
Bonds .....	6.8	11.3	16.6	24.0	30.2	28.0	23.1	22.3	23.0	33.0	50.6	68.7	98.3
Stocks .....	4.1	4.8	5.9	7.7	7.6	8.0	10.4	14.1	19.5	25.8	36.1	35.3	46.3
Mortgages .....	7.2	11.3	9.6	9.8	14.2	17.8	20.7	19.7	13.5	11.5	20.1	20.1	35.1
Real estate .....	.9	1.3	2.1	1.8	2.0	2.2	2.8	3.3	4.5	4.5	4.3	6.0	6.0
Policy loans .....	4.1	5.3	4.6	4.8	5.1	6.3	8.7	11.5	12.6	11.4	9.5	9.5	9.7

<sup>1</sup> Change from prior year shown; for 1970, change from 1969. For explanation of annual percent change, see Guide to Tabular Presentation.

## NO. 844. LIFE INSURANCE IN FORCE IN THE U.S.—SUMMARY: 1970 TO 1985

[As of December 31 or calendar year, as applicable. Covers life insurance with life insurance companies only. Represents all life insurance in force on lives of U.S. residents whether issued by U.S. or foreign companies. "Families" includes families, subfamilies, and unrelated individuals; see definitions, text, section 1. See also *Historical Statistics, Colonial Times to 1970*, series X 879-889]

YEAR	LIFE INSURANCE IN FORCE					AVERAGE SIZE POLICY IN FORCE (dollars)				AVERAGE AMOUNT (\$1,000)		Disposable personal income per family (\$1,000)	
	Number of policies, total (mil.)	Value (bil. dol.)				Ordinary	Group	Industrial	Credit <sup>1</sup>	Per family	Per insured family		
		Total	Ordinary	Group	Industrial								Credit <sup>1</sup>
1970.....	355	1,402	731	545	38.6	87.9	6,110	6,910	500	1,000	20.7	24.4	10.3
1971.....	357	1,503	788	581	39.2	95.0	6,440	7,170	520	1,080	21.7	25.5	10.8
1972.....	365	1,628	849	631	40.0	108.8	6,790	7,730	530	1,190	22.9	26.9	11.4
1973.....	369	1,778	928	708	40.6	101.2	7,230	8,010	540	1,300	24.4	28.8	12.6
1974.....	380	1,985	1,009	827	39.4	109.6	7,690	8,840	550	1,310	26.5	31.2	13.3
1975.....	380	2,140	1,083	905	39.4	112.0	8,090	9,360	570	1,410	28.1	33.0	14.4
1976.....	382	2,343	1,178	1,003	39.2	123.6	8,610	10,010	580	1,580	30.1	35.0	15.3
1977.....	390	2,583	1,289	1,115	39.0	139.4	9,240	10,550	590	1,760	32.4	37.7	16.6
1978.....	401	2,870	1,425	1,244	38.1	163.1	10,010	11,280	600	1,950	35.1	40.8	17.9
1979.....	407	3,222	1,586	1,419	37.8	179.3	10,890	12,350	610	2,120	38.5	44.8	19.6
1980.....	402	3,541	1,761	1,579	36.0	165.2	11,920	13,410	620	2,110	41.5	48.3	21.4
1981.....	400	4,064	1,978	1,889	34.5	182.4	13,310	15,400	630	2,220	45.7	53.2	22.7
1982.....	390	4,477	2,217	2,066	32.8	181.1	15,140	16,630	630	2,410	49.3	57.9	23.9
1983.....	387	4,866	2,544	2,220	31.4	170.7	17,390	17,530	630	2,650	54.2	63.0	25.5
1984.....	385	5,500	2,888	2,392	30.1	190.0	19,970	18,780	630	2,880	58.7	68.2	27.5
1985.....	386	6,053	3,247	2,562	28.2	216.0	22,760	19,720	640	3,100	63.4	74.6	29.6

<sup>1</sup> Insures borrower to cover consumer loan in case of death.

Source of tables 843 and 844: American Council of Life Insurance, Washington, DC, *Life Insurance Fact Book*, annual.

## NO. 845. LIFE INSURANCE OWNERSHIP BY HOUSEHOLDS AND ADULTS: 1984

[<sup>1</sup>All types" includes coverage with legal reserve life insurance companies, veterans life insurance, and life insurance issued by savings banks, fraternal organizations, mutual aid and burial societies, and similar types of coverage. "Individual life" comprises ordinary and/or industrial life insurance. Based on a survey conducted for the source and the Life Insurance Marketing and Research Association]

TYPE OF HOUSEHOLD AND HOUSEHOLD INCOME	PERCENT OF HOUSEHOLDS IN WHICH AT LEAST ONE MEMBER OWNS LIFE INSURANCE			MEDIAN COVERAGE <sup>2</sup> (\$1,000)			AGE	PERCENT OF ADULTS OWNING LIFE INSURANCE	
	All types	Individual life <sup>1</sup>	Em- ployee group life	All types	Individual life <sup>1</sup>	Em- ployee group life		Male	Female
Total.....	81	57	54	35.0	16.5	20.0	Total, 18 yrs. and over.....	75	65
Family households <sup>3</sup> .....	85	63	58	40.0	20.0	20.0	18-24 yrs. old.....	61	50
Married couple.....	88	66	60	45.0	23.0	21.5	25-29 yrs. old.....	63	64
Female householder <sup>4</sup> .....	74	47	49	20.0	11.0	20.0	30-34 yrs. old.....	79	70
Nonfamily households.....	70	42	41	11.5	5.0	16.5	35-44 yrs. old.....	84	70
Male householder.....	70	41	48	40.0	11.4	30.0	45-54 yrs. old.....	86	72
Female householder.....	70	43	37	6.0	2.0	10.0	55-64 yrs. old.....	86	71
Under \$10,000.....	63	46	27	10.0	5.1	10.0	65 yrs. old and over.....	69	57
\$10,000-\$17,499.....	78	49	46	16.5	8.5	12.0			
\$17,500-\$24,999.....	87	64	60	30.0	16.4	15.0			
\$25,000-\$34,999.....	92	68	70	56.5	25.0	28.0			
\$35,000 and over.....	92	66	74	87.0	40.0	45.0			

<sup>1</sup> Purchased from an agent, company, or fraternal society. <sup>2</sup> Among those households with this type of coverage. Includes coverage of dependents. <sup>3</sup> Includes male householder with no spouse present. <sup>4</sup> With no spouse present.

Source: American Council of Life Insurance, Washington, DC, *Life Insurance Fact Book Update*, 1985.

## NO. 846. LIFE INSURANCE—INSURANCE IN FORCE AND BENEFIT PAYMENTS BY STATE: 1985

[Applies to policyholders and payments in the U.S. For composition of regions, see fig. 1 inside front cover]

REGION, DIVISION, AND STATE	INSURANCE IN FORCE			Benefit pay- ments <sup>1</sup> (mil. dol.)	DIVISION AND STATE	INSURANCE IN FORCE			Benefit pay- ments <sup>1</sup> (mil. dol.)
	Policies (1,000)	Value (bil. dol.)	Avg. per family (dol.)			Policies (1,000)	Value (bil. dol.)	Avg. per family (dol.)	
<b>U.S.</b> .....	<b>386,198</b>	<b>6,053</b>	<b>63,400</b>	<b>66,510</b>	<b>Maryland</b> .....	<b>8,042</b>	<b>124</b>	<b>72,100</b>	<b>1,311</b>
<b>Region:</b>					<b>District of</b>				
<b>Northeast</b> .....	80,044	1,337	67,300	16,980	<b>Columbia</b> .....	2,215	40	126,800	302
Midwest.....	98,546	1,538	65,800	18,060	Virginia.....	12,218	160	72,700	1,532
South.....	149,793	2,028	63,100	19,556	West Virginia.....	3,063	35	47,800	397
West.....	57,815	1,150	57,200	11,914	North Carolina.....	12,171	149	60,500	1,391
<b>New England</b> .....	20,689	348	67,500	4,282	South Carolina.....	7,604	78	61,600	619
Maine.....	1,652	24	51,300	266	Georgia.....	12,234	162	71,000	1,340
New Hampshire.....	1,618	26	62,200	270	Florida.....	16,914	247	50,200	3,012
Vermont.....	848	12	52,300	144	<b>East South</b>				
Massachusetts.....	8,889	156	64,900	1,616	<b>Central</b> .....	<b>31,487</b>	<b>336</b>	<b>58,900</b>	<b>3,123</b>
Rhode Island.....	1,929	25	64,100	310	Kentucky.....	6,155	73	51,500	786
Connecticut.....	5,755	105	84,400	1,476	Tennessee.....	9,313	117	84,000	1,101
<b>Middle Atlantic</b> .....	59,355	989	67,200	12,698	Alabama.....	11,887	97	64,300	819
New York.....	25,865	473	66,300	5,881	Mississippi.....	4,132	49	51,400	407
New Jersey.....	11,642	226	77,700	2,812	<b>West South</b>				
Pennsylvania.....	21,848	290	62,100	4,005	<b>Central</b> .....	<b>42,358</b>	<b>673</b>	<b>65,300</b>	<b>6,275</b>
<b>East North</b>					Arkansas.....	2,716	42	45,600	391
<b>Central</b> .....	<b>70,423</b>	<b>1,079</b>	<b>66,300</b>	<b>13,034</b>	Louisiana.....	9,577	111	66,500	1,040
Ohio.....	18,319	272	65,400	3,338	Oklahoma.....	4,461	78	57,900	894
Indiana.....	9,439	134	61,400	1,592	Texas.....	25,604	442	69,400	3,950
Illinois.....	20,049	324	71,500	3,994	<b>Mountain</b> .....	<b>18,125</b>	<b>305</b>	<b>59,400</b>	<b>3,124</b>
Michigan.....	14,865	237	67,300	2,731	Montana.....	1,131	17	50,300	203
Wisconsin.....	7,751	112	60,000	1,379	Idaho.....	1,318	21	53,600	210
<b>West North</b>					Wyoming.....	688	12	59,000	134
<b>Central</b> .....	<b>28,123</b>	<b>459</b>	<b>64,600</b>	<b>5,026</b>	Colorado.....	5,052	95	68,600	903
Minnesota.....	6,159	112	66,600	1,206	New Mexico.....	1,771	30	55,100	306
Iowa.....	4,852	73	62,700	955	Arizona.....	4,527	72	56,200	781
Missouri.....	8,486	127	62,400	1,283	Utah.....	2,294	37	64,100	373
North Dakota.....	955	17	62,500	164	Nevada.....	1,364	21	49,500	214
South Dakota.....	994	17	59,400	177	<b>Pacific</b> .....	<b>39,690</b>	<b>645</b>	<b>56,500</b>	<b>6,790</b>
Nebraska.....	2,561	45	68,000	533	Washington.....	5,162	100	52,600	1,070
Kansas.....	4,106	68	67,400	688	Oregon.....	3,128	58	49,500	694
<b>South Atlantic</b> .....	<b>75,948</b>	<b>1,019</b>	<b>63,200</b>	<b>10,158</b>	California.....	28,710	643	57,000	6,587
Delaware.....	1,487	24	99,400	254	Alaska.....	871	14	63,500	99
					Hawaii.....	1,819	30	75,600	340

<sup>1</sup> Comprises death payments, matured endowments, disability and annuity payments, surrender values, and policy dividends.Source: American Council of Life Insurance, Washington, DC, *Life Insurance Fact Book*, annual.

## NO. 847. PROPERTY AND LIABILITY INSURANCE: 1970 TO 1985

[In millions of dollars, except companies reporting. Premiums written represent total premiums on all insurance policies written by companies, with inception dates in years shown. Minus sign (—) indicates loss. See also *Historical Statistics, Colonial Times to 1970*, series X 918, 923, 928, 933, and 940]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
Companies reporting.....	2,727	2,886	2,938	2,867	2,867	2,953	2,994	(NA)	(NA)	(NA)
<b>Premiums written<sup>1</sup></b> .....	<b>32,887</b>	<b>49,987</b>	<b>81,690</b>	<b>90,123</b>	<b>95,569</b>	<b>99,276</b>	<b>103,968</b>	<b>108,983</b>	<b>118,166</b>	<b>144,186</b>
Auto liability.....	8,859	13,315	20,383	22,102	23,319	24,395	26,228	28,080	30,217	36,087
Physical damage, auto.....	4,824	7,823	12,835	14,538	15,933	16,748	18,005	19,748	21,766	25,247
Liability, other than auto.....	2,140	3,981	7,706	7,817	7,692	7,385	7,159	7,247	8,254	14,313
Medical malpractice.....	(NA)	895	1,216	1,204	1,276	1,338	1,490	1,568	1,775	2,769
Fire <sup>2</sup> .....	3,147	3,691	4,675	4,781	4,784	4,817	4,836	4,608	4,853	6,173
Homeowners multiple peril.....	2,585	4,729	7,792	8,792	9,821	10,780	11,747	12,512	13,213	14,066
Commercial multiple peril.....	1,331	3,176	5,830	6,667	6,886	6,870	7,009	7,293	8,287	12,087
Workers' compensation.....	3,492	6,186	11,300	13,164	14,239	14,616	13,945	14,005	15,108	17,048
Inland marine.....	812	1,266	1,867	2,061	2,291	2,428	2,510	2,649	3,017	3,672
Ocean marine.....	465	881	1,000	1,009	1,065	1,127	1,101	1,096	1,155	1,177
Surety and fidelity.....	562	789	1,076	1,155	1,248	1,351	1,454	1,649	1,997	2,853
Burglary and theft.....	135	120	133	140	136	128	115	106	109	122
Crop-hail.....	125	312	351	396	417	504	532	444	509	447
Boiler and machinery.....	115	173	256	283	293	298	293	356	439	618
Glass.....	40	32	35	33	32	31	29	27	28	25
Statutory underwriting gain/loss.....	77	-3,594	2,548	24	-1,712	-4,464	-8,303	-11,088	-19,379	-22,597
Policyholders' dividends.....	504	633	1,252	1,324	1,622	1,824	1,987	2,234	2,098	2,196
Net underwriting gain/loss.....	-426	-4,227	1,296	-1,301	-3,334	-6,288	-10,290	-13,322	-21,477	-24,794
Net investment income.....	2,005	4,150	7,290	9,279	11,063	13,248	14,907	15,973	17,880	19,508
Net income/loss before taxes.....	1,579	-77	8,586	7,978	7,730	6,961	4,617	2,651	-3,817	-5,286
Assets.....	58,594	94,118	149,097	174,228	197,661	212,302	231,693	249,121	264,734	311,365
Policyholders' surplus.....	18,520	25,303	35,379	42,458	52,196	53,804	60,395	65,606	63,809	75,511

NA Not available. <sup>1</sup> Total includes all property, liability, and allied lines; other data are for principal lines only.<sup>2</sup> Includes extended coverage and allied lines.Source: Insurance Information Institute, New York, NY, *Insurance Facts*, annual. Data from A. M. Best Company, Oldwick, NJ.

## NO. 848. AUTOMOBILE INSURANCE: 1970 TO 1985

[In millions of dollars, except as indicated. Premiums earned basis. See also *Historical Statistics, Colonial Times to 1970*, series Q 163-174]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985		
								Total	Private passenger	Commercial
<b>Companies reporting.....</b>	<b>925</b>	<b>1,275</b>	<b>1,470</b>	<b>1,507</b>	<b>1,531</b>	<b>1,571</b>	<b>1,587</b>	<b>1,564</b>		
<b>Total insurance:</b>										
Premiums earned.....	14,612	23,860	37,621	39,752	42,606	48,236	50,490	57,061	48,057	9,004
Losses paid <sup>1</sup> .....	11,198	19,657	27,887	30,605	35,106	39,198	42,185	49,156	41,191	7,965
Percent of premiums.....	76.6	82.4	74.1	77.0	82.4	81.3	83.6	86.1	85.7	88.5
<b>Bodily injury liability: <sup>2</sup></b>										
Premiums earned.....	9,559	15,150	22,480	23,623	25,390	28,635	29,509	33,546	27,624	5,922
Losses paid <sup>1</sup> .....	7,547	12,277	17,221	19,154	21,807	24,919	26,521	31,870	26,023	5,847
Percent of premiums.....	79.0	81.0	76.6	81.1	85.9	87.0	89.9	95.0	94.2	98.7
<b>Physical damage: <sup>3</sup></b>										
Premiums earned.....	5,053	8,710	15,141	16,130	17,215	19,600	20,981	23,515	20,433	3,082
Losses paid <sup>1</sup> .....	3,651	7,380	10,665	11,452	13,130	14,279	15,664	17,286	15,168	2,118
Percent of premiums.....	72.3	84.7	70.4	71.0	76.3	72.9	74.7	73.5	74.2	68.7

<sup>1</sup> Includes adjusting expenses. <sup>2</sup> Includes property damage. <sup>3</sup> Covers auto fire, theft, collision, and comprehensive.

Source: The National Underwriter Co., Cincinnati, OH, *Argus F. C. & S. Chart*, annual (copyright).

## NO. 849. PRIVATE HEALTH INSURANCE ORGANIZATIONS—INCOME AND EXPENSES: 1970 TO 1984

[In millions of dollars, except percent. Minus sign (–) indicates loss. Expenses are on incurred basis. See also *Historical Statistics, Colonial Times to 1970*, series X 957-962]

ITEM	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
<b>All organizations:</b>											
Total premium income.....	16,871	33,178	40,386	48,016	53,577	62,011	72,595	84,419	98,679	109,684	121,484
Claims expense.....	15,320	31,223	37,577	42,959	49,078	56,905	67,504	78,400	89,929	97,990	104,883
Percent of premium income.....	90.8	94.1	93.0	89.5	91.6	91.8	93.0	92.9	91.1	89.3	86.3
Operating expense.....	2,269	3,969	4,569	5,227	5,874	6,740	7,938	9,378	11,242	12,808	14,271
Net underwriting gain.....	–718	–2,014	–1,760	–169	–1,375	–1,634	–2,848	–3,359	–2,492	–1,114	2,330
<b>Blue Cross-Blue Shield:</b>											
Premium income.....	7,371	14,446	17,268	19,553	21,547	23,471	26,334	30,447	34,338	37,611	39,954
Claims expense.....	7,080	14,192	16,227	17,826	19,465	21,724	25,467	29,209	32,144	34,398	35,522
Operating expense.....	534	1,063	1,193	1,330	1,502	1,716	1,951	2,250	2,476	2,710	3,159
Net underwriting gain.....	–224	–809	–151	397	580	31	–1,083	–1,012	–282	503	1,273
<b>Insurance companies: <sup>1</sup></b>											
Premium income.....	8,304	14,075	16,296	19,060	21,059	24,386	28,913	33,966	41,434	46,872	50,878
Claims expense.....	7,104	12,826	14,959	16,435	19,058	21,830	25,774	30,271	36,424	40,109	41,298
Net underwriting gain.....	–447	–1,374	–1,659	–758	–1,760	–1,698	–1,848	–2,256	–2,397	–1,689	445
<b>Other plans:</b>											
Premium income.....	1,196	4,657	6,821	9,403	10,971	14,154	17,347	20,006	22,907	25,201	30,632

<sup>1</sup> Excludes administrative service agreements and hospital indemnity. Hospital indemnity is a form of health insurance which provides a stipulated daily, weekly, or monthly indemnity during hospital confinement. Indemnity is payable on an unallocated basis without regard to actual expense of hospital confinement.

Source: U.S. Health Care Financing Administration, *Health Care Financing Notes*, Sept. 1986, and unpublished data.

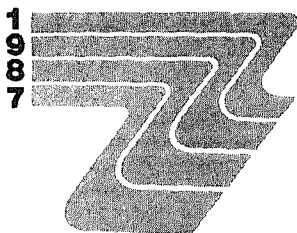
## NO. 850. HEALTH INSURANCE—PREMIUM INCOME AND BENEFIT PAYMENTS OF INSURANCE COMPANIES: 1970 TO 1984

[In billions of dollars. Beginning 1975, includes Puerto Rico and other U.S. outlying areas. Represents premium income of and benefits paid by insurance companies only. Excludes Blue Cross-Blue Shield plans, medical-society sponsored plans, and all other independent plans]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
<b>Premiums <sup>1</sup>.....</b>	<b>11.5</b>	<b>17.9</b>	<b>20.8</b>	<b>24.5</b>	<b>28.7</b>	<b>32.7</b>	<b>37.9</b>	<b>43.7</b>	<b>49.0</b>	<b>58.3</b>	<b>66.2</b>	<b>72.6</b>
Group policies <sup>2</sup> .....	8.1	13.2	15.9	19.4	23.2	26.9	31.7	36.8	42.5	50.0	56.5	62.2
Individual and family policies.....	3.4	4.7	4.9	5.1	5.4	5.8	6.2	6.9	6.5	8.3	9.6	10.4
<b>Benefit payments <sup>3</sup>.....</b>	<b>9.1</b>	<b>13.6</b>	<b>16.5</b>	<b>20.2</b>	<b>22.1</b>	<b>26.4</b>	<b>31.7</b>	<b>37.0</b>	<b>41.6</b>	<b>49.2</b>	<b>53.6</b>	<b>57.3</b>
Group policies <sup>2</sup> .....	7.5	11.4	14.2	17.8	19.5	22.9	27.9	33.0	37.7	44.2	48.1	51.2
Individual and family policies.....	1.6	2.2	2.3	2.4	2.6	3.5	3.8	4.0	3.9	4.9	5.5	6.1
<b>Type of coverage:</b>												
Loss of income.....	1.8	2.5	2.7	2.9	3.1	3.4	4.7	5.3	5.2	5.5	4.9	5.2
Medical expense.....	7.1	10.8	13.2	16.1	17.6	21.2	24.8	28.9	33.0	39.6	44.3	47.2
Dental.....	.1	.3	.6	1.2	1.5	1.8	2.2	2.8	3.5	4.0	4.4	4.9

<sup>1</sup> 1970 refers to written premiums; thereafter, refers to earned premiums. <sup>2</sup> Beginning 1975, insurance company group premiums and benefit payments include Administrative Service Agreements and Minimum Premium Plans. Amounts for prior years contain only a portion of these data. <sup>3</sup> Beginning 1974, excludes accidental death and dismemberment benefits and accident medical reimbursement benefits.

Source: Health Insurance Association of America, Washington, DC, *Source Book of Health Insurance Data*, annual.



## Section 17

# Business Enterprise

This section relates to the place and behavior of the business firm, and to business initiative in the American economy. It includes data on the number, type, and size of businesses; financial data of domestic and multinational U.S. corporations and their foreign affiliates; business investment, expenditures, and profits; business sales and inventories; consumer cooperatives; and business failures. Additional business data may be found in other sections, particularly 28 and 29.

The principal sources of these data are the *Survey of Current Business*, published by the Bureau of Economic Analysis (BEA); the *Federal Reserve Bulletin*, issued by the Board of Governors of the Federal Reserve System; the annual *Statistics of Income* reports of the Internal Revenue Service (IRS); *The Failure Record Through 1983*, issued by the Dun & Bradstreet Corporation, New York; and *Fortune* and *The Fortune Directory*, issued by Time, Inc., New York. Other sources are publications of the Securities and Exchange Commission (SEC), the Bureau of the Census, and the Administrative Office of the United States Courts.

**Business firms.**—A firm is generally defined as a business organization under a single management and may include one or more establishments (i.e., a single physical location at which business is conducted). The terms firm, business, company, and enterprise are used interchangeably throughout this section. A firm doing business in more than one industry is classified by industry according to the major activity of the firm as a whole. The industrial classification is based on the *Standard Industrial Classification (SIC) Manual* (see text, section 13).

The IRS concept of a business firm relates primarily to the legal entity used for tax reporting purposes. The IRS *Statistics of Income* reports present data, based on a sample of tax returns before audit, separately for sole proprietorships, partnerships, and active corporations. A *sole proprietorship* is an unincorporated business owned by one person. Sole proprietorships include the entire range of unincorporated, one-owner businesses, farms, and professional practices, from large enterprises with many employees and hired managers to the part-time operations in which the owner is the only person involved. A *partnership* is an unincorporated business owned by two or more persons, each of whom has a financial interest in the business. The "persons" could be individuals, estates, trusts, other partnerships or corporations. A *corporation* is a business that is legally incorporated under State laws. The IRS recognizes many types of businesses as corporations, including joint-stock companies; mutual and other insurance companies; and unincorporated associations such as business trusts, mutual savings and loan associations, certain partnerships, mutual savings banks, and cooperative banks. While many corporations file consolidated tax returns, most corporate tax returns represent individual corporations, some of which are affiliated through common ownership or control with other corporations filing separate returns.

**Assets and liabilities.**—In its annual report, *Statistics of Income, Corporation Income Tax Returns*, the IRS presents balance sheet and income estimates for all active U.S. corporations. The Bureau of the Census issues the *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations* (QFR), which presents quarterly income account and balance sheet data for manufacturing, mining, and trade industries. The Federal Reserve Board issues *Working Capital of U.S. Nonfinancial Corporations*, which presents data on components of current assets and liabilities of all nonfinancial U.S. corporations. Both of these reports were prepared by the Federal Trade Commission until responsibilities for QFR were transferred to Census beginning with the 4th quarter 1982 report.

One of the most comprehensive measures of the investment position of the business sector (and the only measure adjusted to current replacement cost) is the BEA capital stock series. See *Survey of Current Business*, July 1985. —

**Income, profits, dividends, and taxes.**—Several agencies, among them IRS and BEA, compile corporate income account data. These data, however, are not comparable because of differing methods of compilation. A reconciliation of the two can be found in table 8.13 of *National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business* (normally the July issue), published by BEA. The IRS publishes financial data for all business enterprises. These data appear in *Statistics of Income—Corporation Income Tax Returns* and *Partnership and Sole*

**Proprietorship Returns.** Supplemental reports published periodically present data on international income and taxes reported by U.S. corporations.

The corporate data issued by BEA are a part of its national income and product accounts (see text, Section 14) and are defined as required for purposes of national income estimation. The primary sources for BEA estimates of profits, taxes, dividends, and undistributed profits are the original corporate tax returns submitted to IRS. Various adjustments of IRS data are required by the national income treatment—particularly with respect to profits which would be disclosed if all tax returns were audited; depletion; capital gain or loss; treatment of bad debts; measurement of income received from abroad; and intercorporate dividends—to make the figures comparable with other entries in the national income accounts. For a discussion of two types of adjustments (inventory valuation and capital consumption), see text, Section 14. The BEA's corporate profits data also include net earnings of Federal Reserve banks, credit unions, private noninsured pension funds, and several quasi-government credit agencies not included in IRS data.

**Sources and uses of corporate funds.**—These data (table 886) show capital requirements of corporations and the manner in which they are financed. Sources of funds should be equal to their uses. Certain discrepancies, however, interfere with this equality due to omission of (1) money accruing to corporations from an excess of sales over purchases of used plant and equipment, (2) transactions in securities held as permanent investments except public offerings, and (3) net purchases of land. Also, the balance sheet data upon which many of the financial flow estimates are based are not fully comparable with the tax-return based estimates of internal sources, or the establishment series underlying the figures on inventory change.

**Plant and equipment expenditures.**—Estimates of actual and planned expenditures for new plant and equipment in the United States by most private nonagricultural business firms are based on quarterly sample surveys conducted by the Bureau of Economic Analysis.

For quarterly data, see current issues of the *Survey of Current Business*. For a discussion of coverage, concepts, and methodology, see the February 1985 issue of the *Survey*.

**Sales and inventories.**—Sales are estimated aggregate values, and inventories are book values at the end of the period. Sales signifies sales or shipments for retail and wholesale trade and billings or shipments for manufacturing. Trade inventories are valued at cost of merchandise on hand, while manufacturers' inventories are valued at approximate current costs or at book values, as reported by the manufacturer. Inventories (see table 882) are based on data from censuses (conducted every five years, for years ending in "2" and "7") and annual surveys. Monthly data for manufacturing appear in the Bureau of the Census Current Industrial Reports, *Manufacturers' Shipments, Inventories, and Orders*, series M3-1; for data on retail and wholesale trade, see Section 29.

**Sales, assets, net income, stockholder's equity, and total returns to investors.**—Sales include service and rental revenues but exclude dividends, interest, and other non-operating revenues. All companies on the list must have derived more than 50 percent of their sales from manufacturing and/or mining. Sales of subsidiaries are included when they are consolidated. **Assets** are those shown at the company's year-end. **Net income** is shown after taxes and after extraordinary credits or charges when any are shown on the income statement. **Stockholder's equity** is the sum of capital stock, surplus and retained earnings at the company's year-end. Redeemable preferred stock is excluded when its redemption is either mandatory or outside the control of the company, except in the case of cooperatives. **Total returns to investors** include both price appreciation and dividend yield. Returns are adjusted for stock splits, stock dividends, recapitalizations, and corporate reorganizations as they occur. For further discussion, see Time, Inc., New York, NY, *The Fortune Directory*, May and June issues.

**Economic censuses.**—The economic censuses constitute comprehensive and periodic canvasses of the Nation's industrial and business activities. The first economic census of the United States was conducted as part of the 1810 decennial census, when inquiries on manufacturing were included with the census of population. Minerals data were collected in 1840. The first censuses of construction and business were taken for 1929. An integrated economic census program was begun for 1954. In that year, the censuses covered the retail and wholesale trades, selected service industries, manufactures, and mineral industries. The economic censuses are taken at 5-year intervals covering years ending in "2" and "7".

**Statistical reliability.**—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States*, *Colonial Times to 1970*. See Appendix IV.

**Statistics for States and metropolitan statistical areas (MSAs).**—Data for States and MSAs may also be found in *State and Metropolitan Area Data Book 1986*. For cross-references, see Appendix V.

## NO. 851. NUMBER OF RETURNS, RECEIPTS, AND NET INCOME, BY TYPE OF BUSINESS: 1970 TO 1983

[Figures are estimates based on samples; see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series V 1-12. For further information regarding corporations, see table 872]

ITEM	Unit	1970	1975	1977	1978	1979	1980	1981	1982	1983
Number.....	1,000.....	12,001	13,979	14,741	15,829	16,187	16,793	13,858	14,546	15,245
Receipts.....	Bil. dol.....	2,082	3,685	4,699	5,377	6,345	7,159	7,725	7,755	7,891
Net income (less deficit) <sup>1</sup> .....	Bil. dol.....	109	196	283	320	361	302	264	198	245
Proprietorships, number <sup>2</sup> .....	1,000.....	9,400	10,882	11,346	12,018	12,330	12,702	9,585	10,108	10,704
Business receipts <sup>3</sup> .....	Bil. dol.....	238	339	394	443	488	506	427	434	485
Net income (less deficit) <sup>1</sup> .....	Bil. dol.....	33	45	51	59	61	55	53	51	60
Partnerships, number.....	1,000.....	936	1,073	1,153	1,234	1,300	1,380	1,461	1,514	1,542
Total receipts <sup>4</sup> .....	Bil. dol.....	93	147	177	219	258	292	272	297	291
Net income (less deficit) <sup>1</sup> .....	Bil. dol.....	10	8	13	14	15	8	-3	-7	-3
Corporations, number.....	1,000.....	1,665	2,024	2,242	2,377	2,557	2,711	2,812	2,926	2,999
Total receipts <sup>4</sup> .....	Bil. dol.....	1,751	3,189	4,128	4,715	5,599	6,361	7,026	7,024	7,135
Net income (less deficit) <sup>1</sup> .....	Bil. dol.....	66	143	219	247	286	239	214	154	188

<sup>1</sup> Net income (less deficit) is defined differently by form of organization, basically as follows: (a) Proprietorships: Total taxable receipts less total deductions, including cost of sales and operations; investment and other income are excluded; (b) Partnerships: Total taxable receipts less total deductions, including cost of sales and operations; investment and other income, except capital gains, are included; (c) Corporations: Total taxable receipts less total deductions, including cost of sales and operations; investment and other income, such as capital gains and income from foreign corporations considered received for tax purposes only, are included; net income is before income tax. <sup>2</sup> Through 1980, includes both individually owned businesses and farms; beginning 1981, includes only nonfarm businesses. <sup>3</sup> Receipts from sales and services less allowances, rebates, and returns; excludes capital gains and losses, and investment income not associated with taxpayer's business. <sup>4</sup> Gross taxable receipts from all sources before deduction of cost of goods sold, cost of operations, and net loss from sales of noncapital assets.

Source: U.S. Internal Revenue Service, *Statistics of Income*, and various publications.

## NO. 852. NUMBER OF RETURNS AND BUSINESS RECEIPTS, BY SIZE OF RECEIPTS AND TYPE OF BUSINESS: 1981 TO 1983

[See headnote, table 853. See also *Historical Statistics, Colonial Times to 1970*, series V 1-12. For further information regarding corporations, see table 872]

SIZE-CLASS OF RECEIPTS	1981		1982		1983							
	Re- turns (1,000)	Re- ceipts (bil. dol.)	Re- turns (1,000)	Re- ceipts (bil. dol.)	Returns (1,000)				Receipts (bil. dol.)			
					Total	Non- farm pro- pri- etor- ships	Part- ner- ships <sup>1</sup>	Cor- pora- tions <sup>1</sup>	Total	Non- farm pro- pri- etor- ships	Part- ner- ships <sup>1</sup>	Cor- pora- tions <sup>1</sup>
Total.....	13,858	6,934	14,546	6,842	15,245	10,704	1,542	2,999	7,043	465	243	6,335
Under \$25,000 <sup>2</sup> .....	8,028	47	8,582	50	8,983	7,591	763	629	55	49	2	3
\$25,000-\$49,999.....	1,474	50	1,513	50	1,573	1,187	173	213	52	42	3	7
\$50,000-\$99,999.....	1,352	91	1,360	89	1,453	919	204	330	95	65	8	22
\$100,000-\$499,999.....	2,068	439	2,152	450	2,230	889	298	1,043	469	178	42	250
\$500,000-\$999,999.....	423	282	416	274	455	83	57	318	300	57	25	217
\$1,000,000 or more.....	512	6,024	524	5,931	549	34	46	469	6,073	74	163	5,835
PERCENT DISTRIBUTION												
Under \$25,000 <sup>2</sup> .....	57.9	.7	59.0	.7	58.9	70.9	48.5	21.0	.8	10.6	.8	(z)
\$25,000-\$49,999.....	10.6	.7	10.4	.7	10.3	11.1	11.3	7.1	.7	9.1	1.2	.1
\$50,000-\$99,999.....	9.8	1.3	9.3	1.3	9.5	8.6	13.2	11.0	1.3	13.9	3.4	.3
\$100,000-\$499,999.....	14.9	6.3	14.8	6.6	14.6	8.3	19.3	34.8	6.7	38.2	17.1	3.9
\$500,000-\$999,999.....	3.1	4.1	2.9	4.0	3.0	.8	3.7	10.5	4.3	12.3	10.4	3.4
\$1,000,000 or more.....	3.7	86.9	3.6	86.7	3.6	.3	3.0	15.7	86.2	15.9	67.2	92.1

Z Less than .05 percent. <sup>1</sup> Business receipts. Active firms only. <sup>2</sup> Includes firms with no receipts.

Source: U.S. Internal Revenue Service, *Statistics of Income*, and unpublished data.

**NO. 853. NUMBER OF RETURNS, RECEIPTS, AND NET INCOME, BY INDUSTRY AND TYPE OF BUSINESS:  
1983**

[Figures are estimates based on sample of unaudited tax returns; see Appendix III. Due to minor variations in estimating techniques, totals differ slightly from those shown in other IRS tables in this section. For further information regarding corporations, see tables 872. See *Historical Statistics, Colonial Times to 1970*, series V 42-53, for number of active corporations. Minus sign (-) indicates net loss]

INDUSTRY	NUMBER OF RETURNS (1,000)			BUSINESS RECEIPTS <sup>1</sup> (bil. dol.)			NET INCOME (less deficit) <sup>2</sup> (bil. dol.)		
	Nonfarm proprietor- ships	Active partner- ships	Active corpora- tions	Nonfarm proprietor- ships	Active partner- ships	Active corpora- tions	Nonfarm proprietor- ships	Active partner- ships	Active corpora- tions
<b>Total</b> <sup>3</sup> .....	<b>10,704</b>	<b>1,542</b>	<b>2,999</b>	<b>465.2</b>	<b>243.2</b>	<b>6,334.6</b>	<b>60.4</b>	<b>-2.6</b>	<b>188.3</b>
Agriculture, forestry, and fishing.....	304	137	92	10.0	5.9	55.1	1.1	-.1	-.2
Mining.....	153	60	37	12.2	17.1	122.5	.3	-4.1	-1.6
Construction.....	1,273	64	284	51.8	21.6	280.9	7.3	2.2	2.3
Manufacturing.....	331	26	262	15.4	14.2	2,418.3	1.1	-.7	95.3
Transportation, public utilities <sup>4</sup> .....	483	20	122	25.4	7.2	627.8	2.3	-.7	19.5
Wholesale and retail trade <sup>5</sup> .....	2,415	194	852	195.7	59.9	2,071.3	8.1	1.5	35.3
Wholesales.....	203	24	284	26.2	17.2	1,056.2	1.3	.3	19.3
Retail.....	2,094	170	566	164.0	42.6	1,011.6	6.2	1.2	16.0
Finance, insurance, real estate.....	930	730	480	25.8	<sup>6</sup> 76.8	<sup>6</sup> 362.6	7.8	-13.1	31.7
Services.....	4,646	306	848	124.5	75.1	392.1	31.9	12.5	6.0

<sup>1</sup> See footnote 4, table 851. <sup>2</sup> See footnote 2, table 851. <sup>3</sup> Includes business not specifically allocated to industries below. See also exception in footnote 6. <sup>4</sup> Includes sanitary services. <sup>5</sup> Includes trade business not identified as wholesale or retail. <sup>6</sup> Includes total receipts from all sources (including investment income) for businesses in this category; therefore, the industry detail in this column exceeds the total.

Source: U.S. Internal Revenue Service, *Statistics of Income*, various publications.

**NO. 854. NUMBER OF RETURNS, RECEIPTS, AND NET INCOME, BY INDUSTRY, BY TYPE OF BUSINESS,  
AND BY SIZE OF BUSINESS RECEIPTS: 1983**

[Number in thousands; receipts and net income in millions of dollars. See headline, table 853. See *Historical Statistics, Colonial Times to 1970*, series V 42-53, for number of active corporations. Minus sign (-) indicates net loss]

INDUSTRY	Non- farm pro- prietor- ships, total	ACTIVE PARTNERSHIPS			ACTIVE CORPORATIONS				
		Under \$100,000 <sup>2</sup>	\$100,000- \$499,999	\$500,000 or more	Under \$1,000,000	\$1,000,000- \$4,999,999	\$5,000,000- \$9,999,999	\$10,000,000- \$49,999,999	\$50,000,000 or more
<b>All industrial divisions:</b> <sup>3</sup>	10,704	1,141	298	103	2,531	359	56	44	9
Number.....	10,704	1,141	298	103	2,531	359	56	44	9
Business receipts <sup>4</sup> .....	465,169	13,137	41,475	188,836	449,146	727,873	364,310	793,028	3,950,246
Net income <sup>5</sup> .....	60,359	-21,820	2,534	16,676	-2,073	12,093	7,175	21,672	149,257
<b>Agriculture, forestry, and fishing:</b>	304	124	11	2	83	7	1	1	(Z)
Number.....	304	124	11	2	83	7	1	1	(Z)
Business receipts <sup>4</sup> .....	9,975	428	1,943	3,578	15,699	14,115	6,385	10,796	8,119
<b>Mining:</b>	153	49	6	4	30	5	1	1	(Z)
Number.....	153	49	6	4	30	5	1	1	(Z)
Business receipts <sup>4</sup> .....	12,242	545	1,512	15,020	5,212	9,712	4,663	10,794	92,130
<b>Construction:</b>	1,273	39	20	5	235	40	5	3	(Z)
Number.....	1,273	39	20	5	235	40	5	3	(Z)
Business receipts <sup>4</sup> .....	51,762	1,410	4,118	16,095	55,469	83,476	34,169	51,562	56,221
<b>Manufacturing:</b>	331	20	7	1	179	58	12	10	3
Number.....	331	20	7	1	179	58	12	10	3
Business receipts <sup>4</sup> .....	15,445	409	980	12,790	48,805	128,485	81,260	209,163	1,950,631
<b>Transportation, public utilities:</b> <sup>6</sup>	483	15	4	2	104	15	2	1	1
Number.....	483	15	4	2	104	15	2	1	1
Business receipts <sup>4</sup> .....	25,358	490	798	5,867	21,131	31,301	13,998	26,003	535,405
<b>Wholesale and retail trade:</b>	2,415	114	60	20	638	163	27	21	3
Number.....	2,415	114	60	20	638	163	27	21	3
Business receipts <sup>4</sup> .....	195,672	3,645	14,036	42,199	178,430	348,114	187,746	412,204	944,771
<b>Finance, insurance, real estate:</b>	930	566	543	379	445	23	5	5	2
Number.....	930	566	543	379	445	23	5	5	2
Business receipts <sup>4</sup> .....	25,801	1,250	3,394	37,042	29,403	19,568	10,081	28,320	275,256
<b>Services:</b>	4,646	210	71	26	794	48	4	2	(Z)
Number.....	4,646	210	71	26	794	48	4	2	(Z)
Business receipts <sup>4</sup> .....	124,455	4,936	14,450	55,683	143,447	92,047	25,482	43,440	87,649

NA Not available. Z Less than 500 returns.

<sup>1</sup> Individually owned businesses. <sup>2</sup> Includes businesses without receipts. <sup>3</sup> Includes businesses not allocable to individual industries. <sup>4</sup> See footnote 4, table 851. <sup>5</sup> Less deficit. See footnote 2, table 851. <sup>6</sup> Includes sanitary services.

Source: U.S. Internal Revenue Service, *Statistics of Income*, various publications and unpublished data.

### NO. 855. NONFARM SOLE PROPRIETORSHIP RETURNS—SELECTED INCOME AND DEDUCTION ITEMS: 1970 TO 1984

[In millions of dollars, except as indicated. All figures are estimates based on sample. Tax law changes have affected the comparability of the data over time. See *Statistics of Income* reports for a description of appropriate years tax law changes; see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series V 4-6]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984
Number of returns, total (1,000) .....	5,770	7,221	8,596	<sup>1</sup> 8,932	<sup>1</sup> 9,585	<sup>1</sup> 10,106	10,704	11,282
Number with net business income (1,000) .....	(NA)	(NA)	(NA)	(NA)	6,535	6,761	7,380	8,003
Inventory, end of year .....	11,061	15,578	21,925	21,996	22,922	21,805	(NA)	23,233
Business receipts, total .....	198,582	273,955	395,670	411,206	427,063	433,665	465,169	516,037
Income from sales and operations .....	(NA)	272,343	392,498	407,169	421,700	428,312	455,382	507,234
Deductions, total .....	168,045	234,318	339,141	356,258	373,991	383,092	404,809	445,270
Cost of goods sold/operations .....	108,149	146,261	202,499	209,890	209,724	205,471	212,631	228,906
Purchases .....	88,586	117,722	161,798	168,302	167,751	161,295	(NA)	(NA)
Labor costs .....	7,704	8,791	10,843	10,922	10,923	11,425	9,871	13,009
Materials and supplies .....	6,216	9,091	13,943	12,909	12,081	12,736	(NA)	(NA)
Commissions .....	1,274	2,226	3,745	3,333	3,540	4,464	(NA)	(NA)
Salaries and wages (net) .....	15,107	20,228	27,339	26,561	28,749	30,403	31,866	34,886
Car and truck expenses .....	(NA)	(NA)	11,443	13,378	12,358	(NA)	14,758	17,524
Rent paid .....	4,637	6,676	8,886	9,636	10,715	11,797	11,831	14,278
Repairs .....	2,445	3,044	4,770	5,032	5,414	6,006	(NA)	(NA)
Taxes paid .....	3,776	5,424	7,485	7,672	6,661	7,748	(NA)	(NA)
Utilities .....	(NA)	(NA)	4,503	4,790	8,276	(NA)	(NA)	(NA)
Insurance .....	2,310	3,504	5,862	6,003	6,239	6,446	(NA)	(NA)
Interest paid .....	1,784	3,391	6,386	7,190	9,052	10,143	9,926	11,025
Depreciation .....	5,452	7,958	12,929	13,953	15,855	19,122	22,070	23,900
Pension and profit sharing plans .....	73	125	136	141	153	136	123	258
Net income (less loss) .....	30,537	39,637	56,528	54,947	53,072	50,553	60,359	70,767
Businesses with profit .....	33,736	45,825	67,079	68,010	68,553	68,647	78,618	89,849
Businesses without profit (net loss) .....	3,198	5,988	10,550	13,063	15,481	18,084	18,259	19,083

NA Not available. <sup>1</sup> Includes breakeven businesses.

Source: U.S. Internal Revenue Service, *Statistics of Income Bulletin*, Summer, 1986.

### NO 856. PARTNERSHIP RETURNS—SELECTED INCOME STATEMENT AND BALANCE SHEET ITEMS: 1970 TO 1983

[In millions of dollars, except as indicated. All figures are estimates based on samples. See headnote, table 855. See also Appendix III and *Historical Statistics, Colonial Times to 1970*, Series V 7-9]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983
Active partnerships, number (1,000) .....	936	1,073	1,234	1,300	1,380	1,461	1,514	1,542
Number with net income (1,000) .....	640	661	762	766	774	749	791	784
Number with balance sheets (1,000) .....	556	783	1,024	(NA)	1,194	1,198	1,223	1,191
Number of partners (1,000) .....	3,698	4,951	6,121	6,855	8,420	9,448	9,765	10,589
Assets, total <sup>1</sup> .....	116,753	235,468	353,696	447,130	597,504	715,233	845,281	886,893
Buildings/depreciable assets (net) .....	(NA)	113,125	158,728	(NA)	239,140	367,270	310,846	345,897
Inventories, end of year .....	(NA)	11,985	17,203	(NA)	33,218	59,650	100,729	77,059
Land .....	(NA)	36,732	46,442	(NA)	70,241	76,333	87,920	98,427
Liabilities, total .....	(NA)	193,876	293,050	(NA)	488,734	580,034	701,630	745,153
Accounts payable .....	(NA)	12,302	20,943	(NA)	33,899	29,092	37,255	34,725
Short-term debt <sup>2</sup> .....	(NA)	22,709	27,811	(NA)	48,002	55,692	73,278	67,295
Long-term debt <sup>3</sup> .....	(NA)	136,297	114,943	(NA)	178,044	196,509	236,218	268,268
Nonrecourse loans .....	(NA)	( <sup>4</sup> )	83,747	(NA)	118,910	138,134	154,509	194,829
Partner's capital accounts .....	(NA)	41,593	60,646	(NA)	108,770	135,199	143,651	141,840
Total receipts .....	93,348	148,418	219,192	258,198	291,998	272,130	296,890	291,319
Business receipts .....	90,209	142,506	207,731	242,654	271,109	230,027	251,609	242,248
Interest received <sup>5</sup> .....	942	2,447	4,347	7,246	10,869	13,773	15,260	15,006
Deductions, total .....	83,558	140,680	204,745	242,992	283,749	274,865	304,005	293,929
Cost of goods sold/operations .....	46,041	64,673	87,217	102,097	113,888	130,044	144,595	125,331
Salaries and wages .....	8,129	12,489	16,515	19,393	22,336	21,953	23,205	24,794
Taxes paid .....	3,159	5,771	7,365	8,329	9,553	5,040	5,289	5,810
Interest paid .....	4,470	12,097	16,023	21,276	26,392	19,565	21,517	22,364
Depreciation .....	4,579	10,109	14,520	17,663	21,576	27,263	32,382	37,340
Net income (less loss) .....	9,790	7,738	14,447	15,208	8,248	-2,735	-7,315	-2,610
Businesses with profit .....	14,419	22,432	33,689	40,001	45,062	50,567	53,557	60,308
Businesses without profit (net loss) .....	4,629	14,694	19,243	24,795	36,813	53,302	60,871	62,918

NA Not available. <sup>1</sup> Total assets, total liabilities, and partner's capital accounts are somewhat understated because not all partnership returns filed contained a complete balance sheet. <sup>2</sup> Represents mortgages, notes, and bonds payable in less than one year. <sup>3</sup> Represents mortgages, notes, and bonds payable in one year or more. <sup>4</sup> Tax year 1975 long term debt included nonrecourse loans. <sup>5</sup> Beginning 1982, includes both interest and dividends.

Source: U.S. Internal Revenue Service, *Statistics of Income Bulletin*, Summer 1983 and Fall 1985.

## NO. 857. PARTNERSHIPS—SELECTED ITEMS BY INDUSTRIAL DIVISION: 1978 TO 1983

[In millions of dollars, except partners and partnerships in thousands. Includes partnership not allocable by nature of business. Figures are estimates based on samples. See Appendix III]

INDUSTRY AND YEAR	NUMBER OF PARTNERSHIPS			Number of partners	Total assets	Business receipts <sup>1</sup>	Total deductions <sup>2</sup>	Net income less loss <sup>3</sup>	Net income	Net loss
	Total	With net income	With net losses							
<b>All industries:</b>										
1978	1,234	762	472	6,121	353,696	214,856	204,745	14,447	33,689	19,243
1979	1,300	766	534	6,955	447,130	253,001	242,992	15,206	40,001	24,795
1980	1,380	774	605	8,420	597,504	285,967	283,749	8,249	45,062	36,813
1981	1,481	749	711	9,095	715,233	262,498	274,865	-2,735	50,567	53,302
1982	1,514	791	723	9,765	845,281	284,037	304,005	-7,315	53,557	60,871
1983	1,542	784	758	10,589	886,993	278,347	293,929	-2,610	60,308	62,918
<b>Agriculture, forestry, and fishing:</b>										
1978	127	82	45	380	15,219	18,045	18,125	1,235	2,443	1,208
1979	125	78	47	375	19,363	20,809	21,232	1,061	2,614	1,553
1980	126	72	54	381	24,595	21,611	22,859	472	2,539	2,067
1981	125	64	61	406	23,130	4,993	8,069	-704	2,133	2,837
1982	133	68	65	450	24,814	5,004	8,403	-701	2,452	3,159
1983	137	73	63	466	24,717	5,949	8,772	-145	2,626	2,771
<b>Mining:</b>										
1978	24	11	12	469	13,521	6,563	9,912	-2,857	1,681	4,539
1979	28	14	14	689	16,439	9,721	12,759	-2,508	2,522	5,030
1980	35	15	20	722	24,742	13,201	18,248	-4,208	3,920	8,128
1981	51	20	32	1,475	34,345	15,329	27,113	-10,109	4,832	14,942
1982	56	23	33	1,574	45,550	17,563	28,628	-8,830	5,795	14,625
1983	60	24	36	2,083	49,775	17,077	23,586	-4,110	6,369	10,479
<b>Oil and gas extraction:</b>										
1978	20	10	10	446	(NA)	4,059	6,869	-2,416	1,485	3,901
1979	24	12	12	637	11,379	6,050	8,177	-1,712	2,134	3,845
1980	31	14	17	686	18,861	9,252	13,659	-3,694	3,377	7,271
1981	47	19	28	1,441	27,316	11,009	21,954	-9,966	4,485	13,872
1982	51	22	29	1,512	38,048	13,717	23,525	-7,727	5,493	13,220
1983	56	23	33	1,988	41,067	13,226	19,048	-3,546	5,917	9,463
<b>Construction:</b>										
1978	78	60	18	178	7,322	16,933	14,572	1,770	2,041	270
1979	75	58	18	169	8,732	19,733	18,159	2,127	2,511	384
1980	67	51	16	160	9,811	18,407	17,202	1,560	2,119	559
1981	70	50	20	165	11,006	16,554	15,810	1,209	1,848	639
1982	66	47	19	152	11,654	18,052	17,181	1,419	2,061	642
1983	64	46	18	149	14,965	21,623	20,758	2,168	3,087	919
<b>Manufacturing:</b>										
1978	28	19	9	75	5,347	10,514	10,079	660	1,208	548
1979	30	19	11	87	8,901	13,108	12,983	485	1,358	873
1980	30	20	10	92	11,252	15,327	16,142	-472	1,199	1,671
1981	30	19	12	91	10,988	14,234	15,026	-441	1,100	1,540
1982	23	14	9	77	13,022	14,824	15,980	-816	940	1,766
1983	28	12	14	91	13,966	14,179	15,291	-744	890	1,634
<b>Transportation and public utilities:</b>										
1978	20	13	7	55	7,265	4,486	4,181	377	668	492
1979	20	12	8	61	7,993	5,409	5,125	368	1,078	712
1980	20	11	10	73	9,291	5,968	5,921	248	1,052	644
1981	22	10	11	73	11,627	6,240	6,854	-228	1,093	1,391
1982	18	8	10	93	17,671	6,570	7,577	-761	1,098	1,659
1983	20	9	11	103	19,809	7,155	8,194	-703	1,128	1,831
<b>Wholesale and retail trade:</b>										
1978	200	137	64	478	13,803	52,920	50,791	2,805	3,332	527
1979	205	135	70	488	16,336	58,229	56,066	2,858	3,578	720
1980	200	129	77	487	17,727	65,793	63,988	2,475	3,374	900
1981	217	118	99	528	20,253	70,442	68,853	1,317	2,939	1,622
1982	205	118	87	491	19,279	69,736	66,980	1,601	3,043	1,442
1983	194	102	92	479	19,804	59,880	59,140	1,540	3,012	1,472
<b>Finance, insurance, and real estate:</b>										
1978	516	272	245	3,702	259,423	62,822	62,709	113	9,697	9,583
1979	577	293	284	4,271	331,625	72,258	76,779	-521	12,647	13,168
1980	637	313	325	5,586	454,591	87,133	91,382	-4,249	15,169	19,419
1981	682	300	382	5,328	550,143	73,574	78,934	-5,360	19,771	25,131
1982	726	334	392	5,757	647,465	85,905	97,061	-11,156	19,465	30,621
1983	730	327	403	5,927	670,225	76,784	89,889	-13,105	22,542	35,647
<b>Real estate:</b>										
1978	391	196	195	2,016	(NA)	42,250	43,004	-754	5,881	6,835
1979	431	203	228	2,228	233,853	51,837	53,256	-1,419	7,014	8,433
1980	464	211	253	3,212	275,895	60,637	63,924	-3,287	8,125	11,412
1981	522	216	307	3,133	337,368	30,526	38,433	-7,907	9,852	17,760
1982	568	245	323	3,738	394,966	33,989	45,089	-11,100	11,940	23,039
1983	585	245	341	4,328	465,891	41,355	56,234	-14,879	14,601	29,480
<b>Services:</b>										
1978	241	168	73	783	30,791	43,452	34,376	10,344	12,420	2,075
1979	239	157	82	813	37,659	49,728	39,877	11,339	19,692	2,352
1980	263	169	94	938	45,510	58,627	48,106	12,424	15,649	3,224
1981	263	168	95	1,025	53,559	60,997	53,232	11,618	16,804	5,186
1982	279	175	104	1,147	64,798	65,835	59,627	11,902	18,558	6,656
1983	306	188	116	1,275	73,186	75,069	67,839	12,457	20,570	8,113

NA Not available. <sup>1</sup> Total receipts for partnerships in finance, insurance, and real estate, and business receipts for all other industries. <sup>2</sup> Beginning 1981, the agriculture, forestry, and fishing industries are based on revised collection procedure. See source for detail.

Source: U.S. Internal Revenue Service, *Statistics of Income, Partnership Returns—1978-1982*, and *Statistics of Income Bulletin*, Summer 1986.

## No. 858. EMPLOYEES AND PAYROLL, BY EMPLOYMENT-SIZE CLASS: 1975 TO 1984

[See headnote, table 859]

EMPLOYMENT-SIZE CLASS	Unit	1975	1977	1978	1979	1980	1981	1982	1983	1984
<b>Employees, total</b> .....	<b>1,000</b> .....	<b>60,564</b>	<b>64,976</b>	<b>70,289</b>	<b>74,681</b>	<b>74,836</b>	<b>74,850</b>	<b>74,297</b>	<b>72,971</b>	<b>77,996</b>
Under 20 employees.....	1,000.....	16,393	17,605	18,723	19,408	19,423	19,515	19,898	20,136	21,171
20 to 99 employees.....	1,000.....	16,272	17,815	19,612	20,992	21,168	21,231	21,143	20,806	22,449
100 to 499 employees.....	1,000.....	13,713	14,956	16,327	17,527	17,840	17,977	17,444	16,794	18,348
500 to 999 employees.....	1,000.....	4,872	5,157	5,537	5,780	5,689	5,497	5,436	5,186	5,614
1,000 or more employees.....	1,000.....	9,315	9,443	10,080	10,976	10,716	10,630	10,376	10,050	10,413
<b>Annual payroll</b> .....	<b>Bil. dol</b> .....	<b>596</b>	<b>738</b>	<b>841</b>	<b>952</b>	<b>1,038</b>	<b>1,150</b>	<b>1,199</b>	<b>1,289</b>	<b>1,407</b>
Under 20 employees.....	Bil. dol.....	138	171	190	210	231	254	272	298	326
20 to 99 employees.....	Bil. dol.....	147	183	211	239	261	288	303	319	358
100 to 499 employees.....	Bil. dol.....	135	170	196	224	249	279	286	297	334
500 to 999 employees.....	Bil. dol.....	53	65	74	84	91	99	104	107	120
1,000 or more employees.....	Bil. dol.....	123	149	170	196	208	229	234	248	269

## No. 859. EMPLOYEES AND PAYROLL, BY EMPLOYMENT-SIZE CLASS AND INDUSTRY: 1984

[Excludes government employees, railroad employees, self-employed persons, etc. See "General Explanation" in source for definitions and statement on reliability of data]

EMPLOYMENT SIZE-CLASS	Unit	All Industries <sup>1</sup>	Agricultural services <sup>2</sup>	Mining	Contract construction	Manufacturing	Transportation <sup>3</sup>	Wholesale trade	Retail trade	Finance and insurance <sup>4</sup>	Services
<b>Employees, total</b> .....	<b>1,000</b> .....	<b>77,996</b>	<b>357</b>	<b>974</b>	<b>4,172</b>	<b>19,325</b>	<b>4,675</b>	<b>5,388</b>	<b>16,081</b>	<b>5,783</b>	<b>20,349</b>
Under 20 employees.....	1,000.....	21,171	209	148	1,718	1,402	783	2,043	6,237	1,727	6,169
20 to 99 employees.....	1,000.....	22,449	90	271	1,402	3,891	1,232	2,103	5,662	1,681	4,964
100 to 499 employees.....	1,000.....	18,348	(b)	(d)	691	6,552	1,284	958	2,643	1,241	4,612
500 to 999 employees.....	1,000.....	5,614	12	117	113	2,519	435	167	324	388	1,538
1,000 or more employees.....	1,000.....	10,413	(b)	(d)	248	4,961	941	117	215	746	3,066
<b>Annual payroll</b> .....	<b>Bil. dol</b> .....	<b>1,407</b>	<b>4.7</b>	<b>28.3</b>	<b>89.6</b>	<b>439.3</b>	<b>115.7</b>	<b>119.8</b>	<b>166.1</b>	<b>118.3</b>	<b>311.4</b>
Under 20 employees.....	Bil. dol.....	326	2.8	3.6	31.8	25.5	14.1	42.1	60.3	30.7	102.4
20 to 99 employees.....	Bil. dol.....	358	1.1	7.2	31.0	73.7	26.8	46.0	65.7	39.9	70.2
100 to 499 employees.....	Bil. dol.....	334	(c)	(d)	17.2	132.2	32.4	23.5	30.0	26.2	61.8
500 to 999 employees.....	Bil. dol.....	120	(z)	4.1	3.0	58.5	12.4	4.9	5.0	8.5	23.5
1,000 or more employees.....	Bil. dol.....	269	(d)	(d)	6.5	149.4	30.1	3.2	4.1	18.9	53.5

D Withheld to avoid disclosure of operations of individual establishments. Z Less than 500 or \$500 million. <sup>1</sup> Includes nonclassifiable establishments not shown separately. <sup>2</sup> Includes forestry and fisheries. <sup>3</sup> Includes other public utilities.<sup>4</sup> Includes real estate.Source of tables 858 and 859: U.S. Bureau of the Census, *County Business Patterns*, annual.

## No. 860. CONSUMER COOPERATIVES AND FARMER COOPERATIVES SELLING CONSUMER GOODS, BY TYPE OF ASSOCIATION: 1970 TO 1984

[Members in thousands; business in millions of dollars. Business refers to loans outstanding]

TYPE OF ASSOCIATION	1970			1981			1984		
	Associations	Members	Business	Associations	Members	Business	Associations	Members	Business
Credit unions <sup>1</sup> .....	23,656	22,819	14,106	20,697	45,069	50,394	15,192	43,204	67,666
Electric power cooperatives <sup>2</sup> .....	875	5,789	1,195	869	9,028	7,440	869	9,769	10,452
Rural telephone cooperatives <sup>3</sup> .....	235	609	86	254	962	391	252	1,030	574
Independent prepaid and self-insured health plans <sup>4</sup> .....	<sup>5</sup> 482	<sup>6</sup> 12,204	1,068	(NA)	<sup>7</sup> 28,107	<sup>8</sup> 9,353	(NA)	(NA)	(NA)
Community consumer.....	<sup>5</sup> 400	<sup>6</sup> 4,691	445	(NA)	<sup>7</sup> 6,762	<sup>8</sup> 2,519	(NA)	(NA)	(NA)
Labor and management.....	<sup>5</sup> 418	<sup>6</sup> 5,834	545	(NA)	<sup>7</sup> 18,457	<sup>8</sup> 5,810	(NA)	(NA)	(NA)
Health professionals (both profit making and non-profit plans).....	<sup>5</sup> 24	<sup>6</sup> 1,679	78	(NA)	<sup>7</sup> 2,686	<sup>8</sup> 1,024	(NA)	(NA)	(NA)
Farmer cooperatives selling producer and consumer goods <sup>9</sup> .....	6,209	(NA)	3,871	5,009	(NA)	17,059	4,401	(NA)	18,869
Petroleum products <sup>9</sup> .....	2,774	(NA)	862	2,911	(NA)	5,946	2,647	(NA)	5,477
Meats and groceries.....	717	(NA)	83	462	(NA)	163	421	(NA)	156
Miscellaneous <sup>9</sup> .....	4,800+	(NA)	527	4,300+	(NA)	1,729	3,766	(NA)	1,340

NA Not available. <sup>1</sup> Beginning 1984, covers federally insured credit unions. Source: National Credit Union Administration, *Annual Report of the National Credit Union Administration and State Chartered Credit Unions*. <sup>2</sup> Source: U.S. Rural Electrification Administration, *Statistical Report—Rural Electric Borrowers*. Electric distribution cooperatives currently borrowing from REA, average number of consumers served, and total revenues. <sup>3</sup> Source: U.S. Rural Electrification Administration, *Statistical Report—Rural Telephone Borrowers*. Cooperatives currently borrowing from REA, number of subscribers at end of year, annual revenues. <sup>4</sup> Source: U.S. Health Care Financing Administration, *Health Care Financing Review*, September 1982, and unpublished data. Estimated enrollees and annual subscription income of plans. Enrollment is for most frequent type of benefit (surgical services). <sup>5</sup> 1968 data. <sup>6</sup> 1979 data. <sup>7</sup> Data for fiscal years ending June 30 or earlier in years shown. Since most cooperatives do more than one type of business, totals are less than would be obtained by adding number of cooperatives handling individual items or performing individual services. Major products sold are feed, seed, fertilizer, pesticides, and petroleum. See table 1132 for other items sold by farmer cooperatives. <sup>8</sup> Sales include products for farming, for both farm and non-farm home heating, and automobile and truck uses. <sup>9</sup> Includes hardware, building supplies, lawn and garden items, electrical goods, and other supplies used by both farmers and nonfarmers.

Source: Except as noted, U.S. Dept. of Agriculture, Agricultural Cooperative Service, unpublished data.

## NO. 861. WOMEN-OWNED FIRMS—MAJOR INDUSTRY STATISTICS: 1982

SIC <sup>1</sup> Code	INDUSTRY	All firms	WOMEN-OWNED FIRMS							
			All firms				With paid employees			
			Total	Per- cent distribution	Sales and re- ceipts (mil. dol.)	Per- cent distribution	Total	Em- ploy- ees for pay period incl. Mar. 12	Annual payroll (mil. dol.)	Sales and re- ceipts (mil. dol.)
(x)	All industries <sup>2</sup> .....	12,059,950	2,884,450	100.0	98,292	100.0	311,662	1,354,588	11,156	65,347
(x)	Agricultural services <sup>3</sup> .....	(NA)	21,344	.7	686	.7	2,843	8,998	77	406
(x)	Mining.....	(NA)	22,753	.8	2,221	2.3	1,335	11,632	209	1,323
(x)	Construction <sup>4</sup> .....	1,324,793	61,665	2.1	4,565	4.6	13,321	56,211	805	3,305
17	Special trade contractors.....	(NA)	47,219	1.6	2,497	2.5	8,991	36,425	522	1,812
(x)	Manufacturing <sup>5</sup> .....	314,219	49,727	1.7	5,303	5.4	10,239	39,470	1,126	4,759
(x)	Transportation public utilities <sup>6</sup> .....	499,656	40,596	1.4	3,229	3.3	8,431	38,699	464	2,501
42	Trucking and warehousing.....	(NA)	16,517	.6	1,342	1.4	3,676	15,698	216	929
47	Transportation services.....	(NA)	14,692	.5	1,282	1.3	2,913	10,186	118	1,103
(x)	Wholesale trade.....	2,886,187	34,252	1.2	9,190	9.3	8,704	49,673	688	8,241
(x)	Retail trade <sup>6</sup> .....	(NA)	727,688	25.2	35,861	36.5	119,453	541,463	3,289	26,770
54	Food stores.....	(NA)	37,635	1.3	6,047	6.2	13,647	62,953	410	4,691
55	Auto dealers, service stations.....	(NA)	14,353	.5	4,754	4.8	6,205	27,936	281	4,045
56	Apparel accessory stores.....	(NA)	29,130	1.0	2,446	2.5	11,499	39,067	232	1,933
58	Eating and drinking places.....	(NA)	66,811	2.3	6,684	6.8	38,028	254,054	1,231	5,766
(x)	Finance, insurance, real estate <sup>6</sup> .....	1,703,321	263,734	9.1	6,370	6.5	16,483	49,126	532	2,830
60	Banking.....	(NA)	2,260	.1	204	.2	245	2,957	41	174
61	Credit agencies <sup>6</sup> .....	(NA)	352	(Z)	96	.1	176	1,257	18	90
63	Insurance carriers.....	(NA)	181	(Z)	16	(Z)	83	257	3	14
64	Insurance agents, brokers.....	(NA)	32,617	1.1	882	.9	3,998	8,291	101	461
65	Real estate <sup>6</sup> .....	(NA)	225,551	7.8	4,733	4.8	11,459	34,279	331	1,909
(x)	Selected services <sup>6</sup> .....	4,723,771	1,401,778	48.6	26,278	26.7	122,002	490,744	3,804	14,149
70	Hotels and other lodging places.....	(NA)	17,771	.6	1,671	1.7	5,713	45,012	313	1,352
72	Personal services.....	(NA)	419,113	14.5	5,500	5.6	44,009	136,034	899	2,799
75	Auto repair, services, and garages.....	(NA)	11,322	.4	929	.9	4,050	15,511	175	753
79	Amusement, recreation, service.....	(NA)	51,694	1.8	1,132	1.2	3,579	21,200	161	699
80	Health services.....	(NA)	128,389	4.5	3,989	4.1	13,669	78,533	684	2,381
81	Legal services.....	(NA)	24,700	.9	953	.9	4,806	9,178	116	546
83	Social services.....	(NA)	2,330	.1	229	.2	2,180	14,931	84	225

NA. Not available. X. Not applicable. Z. Less than .05 percent.

<sup>1</sup> Standard Industrial Classification. <sup>2</sup> Includes industries not classified. <sup>3</sup> Includes forestry and fishing. <sup>4</sup> Includes industries not shown separately. <sup>5</sup> Other than banks. <sup>6</sup> Excludes industry 6552.

Source: U.S. Bureau of the Census, 1982 Survey of Women-Owned Businesses, series WB82-1.

## NO. 862. BLACK-OWNED FIRMS—MAJOR INDUSTRY STATISTICS: 1977 AND 1982

[Represents black-owned firms with at least 2 percent of black-owned sales and receipts. Minus sign (-) indicates decline]

SIC <sup>1</sup> Code	INDUSTRY	1977		1982						
		All firms		All firms			Firms with paid employees			
		Total	Sales and re- ceipts (mil. dol.)	Total	Sales and receipts		Total	Em- ployees for pay period incl. Mar. 12	Annual payroll (mil. dol.)	Sales and re- ceipts (mil. dol.)
					Total (mil. dol.)	Per- cent change 1977- 1982				
(x)	All industries <sup>2</sup> .....	231,203	8,645	339,239	12,444	43.9	38,631	165,765	1,531	8,529
(x)	Construction <sup>3</sup> .....	21,101	758	23,081	995	31.3	4,129	14,470	162	657
17	Special trade contractors.....	17,126	497	18,399	578	16.4	2,997	9,773	99	356
(x)	Manufacturing.....	4,243	614	4,171	988	61.0	1,159	15,186	193	943
(x)	Transportation, public utilities <sup>3</sup> .....	23,061	509	24,397	795	56.1	2,256	6,817	78	325
42	Trucking and warehousing.....	11,552	353	13,029	530	50.1	1,406	3,463	42	182
(x)	Wholesale trade.....	2,212	664	3,651	859	29.3	626	4,391	65	807
(x)	Retail trade <sup>3</sup> .....	55,428	3,352	84,053	4,119	22.9	10,237	43,140	296	3,034
54	Food stores.....	10,679	786	9,187	883	12.3	1,832	6,916	52	587
55	Auto dealers, service stations.....	5,002	1,108	3,448	1,307	18.0	1,431	6,641	70	1,184
58	Eating and drinking places.....	13,008	572	11,629	675	18.0	3,394	19,232	97	493
(x)	Finance, insurance, real estate <sup>3</sup> .....	9,805	641	14,829	748	16.6	1,165	13,544	149	615
63	Insurance carriers.....	58	249	51	254	2.1	44	6,954	75	254
(x)	Selected services <sup>3</sup> .....	101,739	1,890	147,263	3,249	71.9	16,858	64,355	547	1,933
72	Personal services.....	35,035	399	40,394	581	40.5	3,605	9,170	61	233
80	Health services.....	14,560	433	17,195	595	37.5	3,263	9,909	84	406

X. Not applicable. <sup>1</sup> Standard Industrial Classification; see text, section 13. <sup>2</sup> Includes industries not classified.<sup>3</sup> Includes industries not shown separately.

Source: U.S. Bureau of the Census, 1982 Survey of Minority-Owned Business Enterprises, series MB82-1.

## No. 863. INDUSTRIAL AND COMMERCIAL FAILURES—NUMBER AND LIABILITIES: 1960 TO 1985

[Excludes Hawaii prior to 1975, Alaska prior to 1978. Commercial and industrial failures only through 1993, excluding failures of banks, railroads, real estate, insurance, holding, and financial companies, steamship lines, travel agencies, etc. Data for 1984-85 based on expanded coverage and new methodology and are therefore not generally comparable with earlier data. See also *Historical Statistics, Colonial Times to 1970*, series V 20-30]

YEAR	Total concerns in business <sup>1</sup> (1,000)	Index of net business formations <sup>2</sup> (1967 = 100)	New incorporations <sup>2</sup> (1,000)	FAILURES <sup>3</sup>		
				Number	Rate per 10,000 concerns	Current liabilities <sup>4</sup> (mil. dol.)
1960	2,708	94.5	183	15,445	57	839
1965	2,527	99.8	204	13,514	53	1,322
1966	2,520	99.3	200	13,061	52	1,386
1967	2,519	100.0	207	12,364	49	1,285
1968	2,481	108.3	234	9,636	39	841
1969	2,444	115.8	274	9,154	37	1,142
1970	2,442	108.8	264	10,748	44	1,888
1971	2,466	111.1	288	10,326	42	1,917
1972	2,480	119.3	317	9,566	38	2,000
1973	2,567	119.1	329	9,345	36	2,299
1974	2,581	119.2	319	9,915	38	3,053
1975	2,679	109.6	328	11,432	49	4,380
1976	2,782	120.4	376	9,828	35	3,011
1977	2,793	130.8	436	7,919	28	3,095
1978	2,786	138.1	478	6,619	24	2,656
1979	2,708	138.3	525	7,564	28	2,687
1980	2,780	129.9	534	11,742	42	4,635
1981	2,745	124.8	581	16,794	61	6,955
1982	2,806	116.4	567	24,908	88	15,611
1983	2,851	117.5	600	31,334	110	16,073
1984	4,885	121.3	635	52,078	107	29,289
1985, prel	4,990	121.2	669	57,087	114	33,376

<sup>1</sup> Data through 1983 represent number of names listed in July issue of *Dun & Bradstreet Reference Book*. Data for 1984-85 represent the number of establishments listed in the Dun's Census of American Business. The base has been changed due to expanded business failure coverage. <sup>2</sup> Source: U.S. Bureau of Economic Analysis, *Business Conditions Digest*, June issues.

<sup>3</sup> Includes concerns discontinued following assignment, voluntary or involuntary petition in bankruptcy, attachment, execution, foreclosure, etc.; voluntary withdrawals from business with known loss to creditors; also enterprises involved in court action, such as receivership and reorganization or arrangement which may or may not lead to discontinuance; and businesses making voluntary compromise with creditors out of court. <sup>4</sup> Liabilities exclude long-term publicly held obligations; offsetting assets are not taken into account.

## No. 864. U.S. BUSINESS FAILURES—NUMBER AND LIABILITIES, BY STATE: 1984 AND 1985

[See headnote, table 863]

DIVISION AND STATE	NEW BUSINESS INCORPORATIONS		NUMBER OF FAILURES		CURRENT LIABILITIES <sup>2</sup> (mil. dol.)		DIVISION AND STATE	NEW BUSINESS INCORPORATIONS		NUMBER OF FAILURES		CURRENT LIABILITIES <sup>2</sup> (mil. dol.)	
	1984	1985	1984	1985 <sup>1</sup>	1984	1985 <sup>1</sup>		1984	1985	1984	1985 <sup>1</sup>	1984	1985 <sup>1</sup>
U.S.	634,991	668,904	52,078	57,067	29,269	33,376	VA	14,621	15,017	916	991	269.0	573.9
N.E.	32,027	37,943	1,203	1,229	397.7	670.9	WV	2,468	2,465	339	366	133.0	85.8
ME	2,231	2,595	105	80	18.5	7.0	NC	11,134	11,796	763	663	123.8	64.2
NH	2,754	3,542	102	60	13.3	11.1	SC	5,681	7,072	246	235	54.7	19.8
VT	1,940	1,743	55	38	11.1	4.0	GA	17,723	17,286	721	955	237.7	277.4
MA	14,159	15,801	513	685	265.2	357.5	FL	68,999	71,649	2,588	2,792	1,045.0	2,277.1
RI	2,827	3,054	104	58	18.1	5.1	E.S.C.	24,123	25,908	3,271	3,262	1,718.7	1,155.7
CT	8,116	11,208	324	308	71.4	286.2	KY	7,450	7,686	787	972	215.3	357.4
M.A.	112,162	120,289	5,132	4,485	2,125.2	4,145.6	TN	7,731	8,723	1,326	1,213	1,044.7	468.6
NY	68,626	72,083	2,358	1,866	709.0	1,209.2	AL	6,000	6,139	771	607	179.6	255.6
NJ	27,646	30,458	1,005	981	947.9	1,342.8	MS	2,942	3,160	387	470	277.1	76.1
PA	15,890	17,748	1,769	1,638	468.3	1,593.6	W.S.C.	62,719	64,445	5,364	7,914	8,995.4	8,221.5
E.N.C.	84,659	90,084	8,930	9,952	3,643.0	2,786.6	AR	4,876	5,272	573	618	1,373.9	184.9
OH	16,294	17,173	2,606	2,447	688.8	543.3	LA	9,333	11,404	858	1,389	442.9	905.5
IN	9,367	9,916	853	1,236	392.0	679.8	OK	5,485	6,399	925	1,015	1,703.7	1,585.8
IL	32,948	34,691	2,646	3,388	1,500.4	948.5	TX	43,045	41,370	3,108	4,892	5,374.8	5,545.3
MI	19,474	21,864	1,806	1,457	737.3	400.4	Mt.	46,308	46,413	4,780	5,322	1,898.1	4,230.9
WI	6,576	6,440	1,019	1,424	324.4	314.4	MT	1,560	1,408	177	194	60.9	54.0
W.N.C.	32,931	32,661	3,264	4,887	1,137.1	1,961.6	ID	1,716	1,636	175	203	40.0	47.6
MN	9,119	9,209	599	510	188.7	264.5	CO	14,160	14,171	2,340	2,654	1,031.5	1,935.2
IA	3,988	4,097	395	832	171.6	444.3	NM	2,878	2,843	245	357	41.3	151.0
MO	10,021	10,176	1,275	1,246	199.3	384.9	AZ	12,102	12,922	691	898	234.4	441.6
ND	1,014	866	117	94	133.8	31.1	UT	4,032	3,717	522	580	107.1	634.9
SD	971	944	80	145	36.3	16.4	NV	8,791	8,685	367	362	93.9	821.5
NE	2,883	2,817	106	485	79.7	179.1	Pac.	82,339	82,832	13,921	13,454	7,834.4	6,545.6
KS	5,135	4,752	712	1,575	327.7	641.3	WA	9,251	9,379	1,406	1,634	586.9	844.7
S.A.	157,723	168,329	6,233	6,562	2,021.1	3,657.5	OR	6,828	7,161	1,751	1,141	492.0	329.6
DE	25,866	26,606	62	46	31.1	20.1	CA	60,952	61,160	10,434	10,257	8,341.0	5,046.4
MD	11,176	14,239	532	453	105.2	311.2	AK	2,533	2,132	105	176	65.7	44.3
DC	2,055	2,199	66	61	21.7	27.9	HI	2,775	3,000	225	246	148.8	280.6

<sup>1</sup> Preliminary. <sup>2</sup> See headnote, and footnotes 3 and 4, table 863.

Source of tables 863 and 864: Dun & Bradstreet Corporation, New York, NY, *The Failure Record Through 1932 and Monthly Failure Report*.

# NO. 865. INDUSTRIAL AND COMMERCIAL FAILURES—NUMBER AND LIABILITIES, BY INDUSTRY AND SIZE OF LIABILITY: 1975 TO 1983

[1975 excludes Alaska. See footnotes, table 863]

INDUSTRY AND SIZE OF LIABILITY	FAILURES						CURRENT LIABILITIES (mil. dol.)					
	1975	1979	1980	1981	1982	1983	1975	1979	1980	1981	1982	1983
<b>Total</b> .....	<b>11,432</b>	<b>7,564</b>	<b>11,742</b>	<b>16,794</b>	<b>24,908</b>	<b>31,334</b>	<b>4,380</b>	<b>2,667</b>	<b>4,635</b>	<b>6,955</b>	<b>15,611</b>	<b>16,073</b>
Mining and manufacturing.....	1,645	1,165	1,599	2,223	3,683	4,433	1,021	970	1,885	2,369	5,510	6,372
Under \$100,000.....	789	424	501	731	1,113	1,444	35	21	25	37	57	59
\$100,000 and over.....	856	741	1,098	1,492	2,570	2,989	986	949	1,860	2,332	5,453	6,313
Wholesale trade.....	1,089	908	1,284	1,709	2,783	3,598	407	421	591	1,130	2,798	2,784
Under \$100,000.....	611	342	469	590	845	1,364	28	17	24	31	42	56
\$100,000 and over.....	478	566	816	1,119	1,938	2,234	379	404	567	1,099	2,755	2,728
Retail trade.....	4,799	3,183	4,910	6,882	9,730	11,429	1,836	637	994	1,559	4,479	2,329
Under \$100,000.....	3,520	1,920	2,698	3,739	5,193	6,288	136	88	130	190	245	261
\$100,000 and over.....	1,279	1,263	2,212	3,143	4,537	5,141	1,700	549	864	1,369	4,235	2,068
Construction.....	2,262	1,378	2,355	3,614	4,872	5,247	641	291	752	852	1,374	1,549
Under \$100,000.....	1,433	718	1,147	1,840	2,334	2,633	58	33	55	88	108	110
\$100,000 and over.....	829	660	1,208	1,774	2,538	2,614	583	258	696	764	1,266	1,438
Commercial service.....	1,637	930	1,594	2,366	3,840	6,627	475	348	413	1,046	1,450	3,039
Under \$100,000.....	1,151	526	868	1,333	2,024	3,780	42	21	38	60	80	150
\$100,000 and over.....	486	404	726	1,033	1,816	2,847	433	327	375	986	1,360	2,889

Source: Dun & Bradstreet Corporation, New York, NY, *The Failure Record Through 1983*, and *Monthly Failure Report*.

## NO. 866. BUSINESS FAILURES BY INDUSTRY SECTOR: 1984 AND 1985

[Data based on expanded coverage and new methodology and are therefore not generally comparable with data prior to 1984]

INDUSTRY	1984	1985, prel.	Percent change, 1984-1985	INDUSTRY	1984	1985, prel.	Percent change, 1984-1985
<b>Total</b> .....	<b>52,078</b>	<b>57,067</b>	<b>9.6</b>	Wholesale trade.....	4,882	4,813	-1.4
Agricultural, forestry and fishing.....	1,988	2,695	35.6	Retail trade.....	13,787	13,418	-2.7
Mining.....	744	794	6.7	Finance, insurance, real estate.....	2,392	2,658	11.1
Construction.....	6,936	6,956	.3	Services.....	12,787	16,626	30.0
Manufacturing.....	5,015	4,856	-3.2	Public administration.....	16	11	-31.3
Transportation and public utilities.....	2,295	2,516	10.1	Unclassifiable establishments.....	1,248	1,724	38.4

Source: Dun & Bradstreet Corporation, New York, NY, *Monthly Failure Report*.

## NO. 867. BANKRUPTCY PETITIONS FILED, BY TYPE OF BANKRUPTCY AND CHAPTER OF THE BANKRUPTCY CODE: 1975 TO 1985

[For years ending June 30]

ITEM	1975	1977	1978	1979	1980 <sup>1</sup>	1981	1982	1983	1984	1985
<b>Total</b> .....	<b>254,484</b>	<b>214,399</b>	<b>202,951</b>	<b>226,476</b>	<b>277,880</b>	<b>360,329</b>	<b>367,866</b>	<b>374,734</b>	<b>344,275</b>	<b>364,536</b>
Business.....	30,130	32,189	30,528	29,500	36,449	47,415	56,423	69,818	82,170	66,651
Non-business.....	224,354	182,210	172,423	196,976	241,431	312,914	311,443	304,916	262,105	297,885
Voluntary.....	253,198	213,257	201,944	255,549	276,691	358,987	366,331	373,064	342,828	362,939
Involuntary.....	1,286	1,142	1,007	927	1,189	1,332	1,535	1,670	1,447	1,597
Chapter 7 <sup>3</sup> .....	209,330	181,194	168,771	183,259	214,357	265,721	255,098	251,322	232,994	244,650
Chapter 9 <sup>4</sup> .....	-	1	2	1	-	1	4	3	4	3
Chapter 11 <sup>5</sup> .....	3,506	3,046	3,266	3,042	5,302	7,828	14,059	21,207	19,913	21,425
Chapter 13 <sup>6</sup> .....	41,178	29,422	30,185	39,442	58,216	86,778	98,705	102,201	91,358	98,452
Section 304 <sup>7</sup> .....	(x)	(x)	(x)	(x)	5	1	-	1	6	6

- Represents zero. X: Not applicable. <sup>1</sup>For the first three months of 1980 the judiciary operated under the Bankruptcy Act and for the last nine months under the new bankruptcy code established by the Bankruptcy Reform Act of 1978. Includes only those petitions filed under the new bankruptcy code. <sup>2</sup>Includes five Section 304 cases filed under the Reform Act in 1980 and 1 in 1981 which are not included in the subcategories of voluntary/involuntary. <sup>3</sup>Chapter 7, liquidation of non-exempt assets of businesses or individuals. <sup>4</sup>Chapter 9, adjustment of debts of a municipality. <sup>5</sup>Chapter 11, individual or business reorganization. <sup>6</sup>Chapter 13, adjustment of debts of an individual with regular income. <sup>7</sup>11 U.S.C., Section 304, cases ancillary to foreign proceedings.

Source: Administrative Office of the U.S. Courts, *Annual Report of the Director*.

## NO. 868. BANKRUPTCY PETITIONS FILED AND PENDING: 1905 TO 1985

[In thousands. For fiscal years ending in year shown; see text, section 10. Covers all U.S. bankruptcy courts. Bankruptcy petitions "Filed" means the commencement of a proceeding through the presentation of a petition to the clerk of the bankruptcy court; "Pending" is a proceeding in which the administration has not been completed]

YEAR	Filed	Pending	YEAR	Filed	Pending	YEAR	Filed	Pending	YEAR	Filed	Pending
1905.....	17	28	1950.....	33	38	1988.....	198	184	1977.....	214	254
1910.....	18	28	1955.....	59	56	1989.....	185	179	1978.....	203	240
1915.....	28	44	1960.....	110	95	1990.....	194	191	1979.....	226	258
1920.....	14	30	1962.....	148	134	1971.....	201	201	1980.....	278	346
1925.....	46	60	1963.....	155	148	1972.....	163	197	1981.....	360	382
1930.....	63	81	1964.....	172	157	1973.....	173	189	1982.....	368	481
1935.....	69	85	1965.....	180	162	1974.....	190	201	1983.....	375	537
1940.....	53	55	1966.....	192	169	1975.....	254	202	1984.....	344	578
1945.....	13	21	1967.....	208	165	1976.....	247	271	1985.....	365	609

Source: Administrative Office of the U.S. Court; *Annual Report of the Director*.

## NO. 869. GROSS DOMESTIC PRODUCT (GDP) OF CORPORATE BUSINESS: 1975 TO 1985

[In billions of dollars. For explanation of GDP, see text, section 14. Excludes gross product originating in the rest of the world. Minus sign (—) indicates negative value]

ITEM	1975	1978	1979	1980	1981	1982	1983	1984	1985
<b>Gross domestic product (GDP).....</b>	<b>931</b>	<b>1,357</b>	<b>1,509</b>	<b>1,641</b>	<b>1,843</b>	<b>1,890</b>	<b>2,048</b>	<b>2,277</b>	<b>2,414</b>
Capital consumption allowances <sup>1</sup> .....	96	137	158	181	211	235	243	254	268
Net domestic product.....	834	1,219	1,350	1,460	1,632	1,655	1,803	2,023	2,146
Indirect business tax <sup>2</sup> .....	94	121	130	147	175	177	194	216	230
Domestic income.....	741	1,098	1,221	1,313	1,457	1,478	1,609	1,807	1,916
Compensation of employees.....	617	899	1,020	1,117	1,235	1,288	1,361	1,504	1,603
Corporate profits with IVA and CCAdj <sup>3</sup> .....	103	175	166	143	159	122	184	234	249
Profits before tax.....	120	211	224	203	198	142	177	205	191
Profits tax liability.....	51	84	88	85	81	63	77	95	92
Profits after tax.....	70	128	136	116	117	78	100	109	100
IVA <sup>3</sup> .....	-11	-25	-43	-43	-24	-10	-11	-5	-1
CCAdj <sup>3</sup> .....	-6	-11	-14	-17	-14	-9	17	35	58
Net interest.....	20	25	35	53	63	68	65	70	64
<b>GDP of nonfinancial corporate business.....</b>	<b>882</b>	<b>1,274</b>	<b>1,417</b>	<b>1,541</b>	<b>1,738</b>	<b>1,782</b>	<b>1,914</b>	<b>2,144</b>	<b>2,275</b>
Capital consumption allowances <sup>1</sup> .....	93	131	151	173	200	223	230	240	252
Net domestic product.....	789	1,143	1,267	1,368	1,538	1,559	1,684	1,904	2,023
Indirect business tax <sup>2</sup> .....	88	114	122	139	166	167	183	204	217
Domestic income.....	701	1,029	1,145	1,230	1,372	1,392	1,501	1,700	1,806
Compensation of employees.....	580	847	952	1,051	1,161	1,204	1,266	1,401	1,481
Corporate profits with IVA and CCAdj <sup>3</sup> .....	92	146	196	123	144	112	168	217	224
Profits before tax.....	109	182	196	182	182	130	159	189	170
Profits after tax.....	68	115	126	115	118	83	100	115	104
IVA <sup>3</sup> .....	-11	-25	-43	-43	-24	-10	-11	-5	-1
CCAdj <sup>3</sup> .....	-7	-11	-14	-16	-13	-7	17	33	55
Net interest.....	29	36	44	56	68	77	70	83	90
<b>CONSTANT (1982) DOLLARS</b>									
<b>GDP of nonfinancial corporate business.....</b>	<b>1,468</b>	<b>1,790</b>	<b>1,840</b>	<b>1,808</b>	<b>1,837</b>	<b>1,782</b>	<b>1,866</b>	<b>2,031</b>	<b>2,105</b>
Capital consumption allowances <sup>1</sup> .....	164	186	196	206	215	223	230	238	249
Net domestic product.....	1,325	1,604	1,644	1,602	1,623	1,559	1,636	1,792	1,856
Indirect business tax <sup>2</sup> .....	149	174	175	168	168	167	175	184	180
Domestic income.....	1,176	1,430	1,469	1,434	1,455	1,392	1,461	1,608	1,667

<sup>1</sup> With capital consumption adjustment. <sup>2</sup> Plus business transfer payments less subsidies. <sup>3</sup> Inventory valuation and capital consumption adjustments.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

## NO. 870. WORKING CAPITAL OF NONFINANCIAL CORPORATIONS: 1975 TO 1985

[In billions of dollars, except ratios. As of December 31. Covers all nonfinancial U.S. corporations]

ITEM	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>Current assets.....</b>	<b>756.3</b>	<b>823.1</b>	<b>900.9</b>	<b>1,028.1</b>	<b>1,200.9</b>	<b>1,281.8</b>	<b>1,374.5</b>	<b>1,425.4</b>	<b>1,557.3</b>	<b>1,703.0</b>	<b>1,778.5</b>
Cash on hand and in banks <sup>1</sup> .....	80.0	86.8	94.3	103.7	116.1	121.0	126.6	144.1	165.8	173.6	188.0
U.S. Government securities.....	19.6	28.0	18.7	17.8	15.6	17.3	19.2	22.4	30.6	36.2	32.3
Receivables, total <sup>2</sup> .....	272.1	292.4	325.0	381.9	456.8	491.2	528.0	511.0	577.8	633.1	671.2
Inventories.....	314.7	341.4	375.6	428.3	501.7	525.4	560.2	575.2	599.3	656.9	663.9
Other current assets.....	69.9	76.4	67.3	95.3	110.7	126.7	140.5	172.7	183.7	203.2	223.2
<b>Current liabilities.....</b>	<b>446.9</b>	<b>487.5</b>	<b>546.8</b>	<b>681.9</b>	<b>809.1</b>	<b>877.2</b>	<b>923.2</b>	<b>977.8</b>	<b>1,043.0</b>	<b>1,163.6</b>	<b>1,232.7</b>
Payables.....	251.2	272.2	313.7	375.1	455.3	498.3	520.4	552.8	577.9	647.8	683.1
Other current liabilities.....	195.7	214.2	233.1	286.8	352.8	378.9	402.8	425.0	465.1	515.8	549.7
<b>Net working capital.....</b>	<b>309.5</b>	<b>335.6</b>	<b>354.1</b>	<b>386.2</b>	<b>391.8</b>	<b>404.4</b>	<b>451.3</b>	<b>447.6</b>	<b>514.3</b>	<b>539.5</b>	<b>545.7</b>
Liquidity ratio <sup>3</sup> .....	3.79	3.68	3.66	3.29	3.00	3.02	3.10	3.47	3.65	3.65	3.60
Current ratio <sup>4</sup> .....	1.693	1.688	1.648	1.553	1.484	1.461	1.489	1.458	1.493	1.464	1.443

<sup>1</sup> Includes time certificates of deposits. <sup>2</sup> Includes U.S. Government receivables. <sup>3</sup> Cash plus U.S. Government securities plus "other current assets," divided by "current liabilities." <sup>4</sup> "Current assets" divided by "current liabilities."

Source: Through 1981, U.S. Federal Trade Commission, thereafter, U.S. Bureau of the Census. Published quarterly in Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*.

## No. 871. NONFINANCIAL CORPORATE BUSINESS-SECTOR BALANCE SHEET: 1970 TO 1985

[In billions of dollars. Represents year-end outstandings]

ITEM	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985, prel.
<b>Total assets</b> .....	<b>1,305</b>	<b>2,209</b>	<b>2,418</b>	<b>2,676</b>	<b>3,075</b>	<b>3,507</b>	<b>3,983</b>	<b>4,432</b>	<b>4,615</b>	<b>4,868</b>	<b>5,188</b>	<b>5,381</b>
Tangible assets (current cost).....	935	1,652	1,806	2,004	2,311	2,618	2,988	3,371	3,529	3,658	3,895	4,025
Reproducible.....	823	1,467	1,627	1,803	2,076	2,352	2,671	2,993	3,107	3,193	3,383	3,498
Land.....	112	164	178	201	235	267	318	378	422	465	512	527
Financial assets.....	370	558	612	672	764	889	994	1,061	1,086	1,210	1,293	1,357
Liquid assets.....	69	125	140	143	159	181	197	214	243	298	314	326
Demand deposits and currency.....	44	54	56	59	63	69	73	66	76	78	79	89
Time deposits.....	5	22	24	29	31	36	40	55	60	77	81	88
Consumer credit.....	11	16	17	19	21	22	22	24	24	28	31	35
Trade credit.....	195	256	276	311	367	437	486	509	493	555	602	613
Miscellaneous assets.....	94	160	179	193	217	248	290	314	326	328	346	364
<b>Total liabilities</b> .....	<b>542</b>	<b>771</b>	<b>835</b>	<b>930</b>	<b>1,072</b>	<b>1,238</b>	<b>1,381</b>	<b>1,534</b>	<b>1,613</b>	<b>1,731</b>	<b>1,982</b>	<b>2,165</b>
Credit market instruments.....	355	548	591	683	741	836	914	1,018	1,091	1,147	1,340	1,486
Profit taxes payable.....	11	14	22	20	25	27	25	19	4	10	10	2
Trade debt.....	162	180	191	213	264	318	358	389	437	472	482	488
Foreign direct investment in U.S.....	13	28	31	35	42	54	83	109	125	137	160	179
<b>Net worth</b> .....	<b>763</b>	<b>1,438</b>	<b>1,583</b>	<b>1,746</b>	<b>2,004</b>	<b>2,272</b>	<b>2,602</b>	<b>2,898</b>	<b>3,002</b>	<b>3,138</b>	<b>3,206</b>	<b>3,216</b>

Source: Board of Governors of the Federal Reserve System, *Balance Sheets for U.S. Economy*.

## No. 872. CORPORATION INCOME TAX RETURNS—SELECTED BALANCE SHEET, INCOME STATEMENT, AND TAX ITEMS: 1970 TO 1983

[In billions of dollars, except number of returns. Federal returns and active corporations only. See headnote, table 506. See also *Historical Statistics, Colonial Times to 1970*, series V 129-136]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983
<b>Number of returns, total (1,000)</b> .....	<b>1,665</b>	<b>2,024</b>	<b>2,377</b>	<b>2,578</b>	<b>2,711</b>	<b>2,812</b>	<b>2,926</b>	<b>2,999</b>
Number with net income (1,000).....	1,008	1,226	1,524	1,599	1,587	1,597	1,608	1,676
Small Business Corporation returns (1,000).....	257	358	479	519	545	541	564	648
<b>BALANCE SHEET</b>								
<b>Assets, total <sup>1</sup></b> .....	<b>2,635</b>	<b>4,287</b>	<b>6,014</b>	<b>6,845</b>	<b>7,617</b>	<b>8,547</b>	<b>9,358</b>	<b>10,201</b>
Depreciable assets.....	669	1,277	1,696	1,897	2,107	2,353	2,583	2,730
Notes and accounts receivable.....	615	1,052	1,589	1,817	1,985	2,240	2,420	2,677
Mortgage and real estate.....	328	548	762	841	894	934	942	982
Investments in Government obligations.....	197	316	404	421	472	515	606	685
Inventories.....	190	318	443	504	535	588	581	599
Cash.....	177	290	413	462	529	533	541	580
Land.....	47	67	80	85	93	102	110	119
Depletable assets.....	19	39	45	58	72	84	95	108
<b>Liabilities <sup>1</sup></b> .....	<b>2,635</b>	<b>4,287</b>	<b>6,014</b>	<b>6,835</b>	<b>7,617</b>	<b>8,547</b>	<b>9,358</b>	<b>10,201</b>
Mortgages, notes, and bonds, payable in one year or more.....	363	587	780	885	987	1,058	1,224	1,323
Retained earnings <sup>2</sup> .....	366	566	838	959	1,070	1,170	1,228	1,274
Paid-in or capital surplus.....	197	299	362	448	532	671	782	874
Capital stock.....	201	252	309	353	417	533	658	787
Mortgages, notes, and bonds, payable in less than one year.....	171	272	381	452	505	586	667	760
Accounts payable.....	149	263	404	483	542	620	679	671
<b>Net worth</b> .....	<b>752</b>	<b>1,097</b>	<b>1,495</b>	<b>1,720</b>	<b>1,944</b>	<b>2,244</b>	<b>2,470</b>	<b>2,645</b>
<b>INCOME STATEMENT</b>								
<b>Receipts, total <sup>3</sup></b> .....	<b>1,751</b>	<b>3,199</b>	<b>4,715</b>	<b>5,616</b>	<b>6,361</b>	<b>7,026</b>	<b>7,024</b>	<b>7,135</b>
Business receipts.....	1,621	2,962	4,354	5,153	5,792	6,245	6,157	6,335
Interest <sup>4</sup> .....	72	143	220	289	367	494	530	511
Rents and royalties.....	17	27	38	40	54	68	83	83
<b>Deductions, total <sup>1</sup></b> .....	<b>1,683</b>	<b>3,053</b>	<b>4,467</b>	<b>5,332</b>	<b>6,125</b>	<b>6,814</b>	<b>6,869</b>	<b>6,945</b>
Cost of sales and operations.....	1,146	2,130	3,113	3,722	4,205	4,509	4,271	4,308
Interest paid.....	62	129	192	262	345	477	515	475
Depreciation.....	53	86	121	138	157	186	213	241
Taxes paid.....	50	82	116	128	163	170	186	173
Compensation of officers.....	33	53	85	87	109	120	129	141
Rent paid on business property.....	24	41	56	64	72	82	73	105
Repairs.....	14	23	34	39	42	70	73	75
Advertising.....	18	27	41	46	52	60	66	72
Employee benefit programs.....	7	16	27	34	40	46	52	59
Pension, profit-sharing, stock bonus, and annuity plans.....	12	27	42	47	52	53	54	54
<b>Net income (less deficit), total</b> .....	<b>66</b>	<b>143</b>	<b>247</b>	<b>285</b>	<b>239</b>	<b>214</b>	<b>154</b>	<b>188</b>
Net income.....	84	169	275	322	297	301	274	297
Deficit.....	18	26	28	37	58	87	120	109
<b>TAX ITEMS</b>								
Income subject to tax.....	72	147	240	280	247	240	205	219
Income tax before credits <sup>5</sup> .....	33	66	107	119	104	101	85	92
<b>Tax credits, total <sup>1</sup></b> .....	<b>5</b>	<b>26</b>	<b>44</b>	<b>54</b>	<b>42</b>	<b>44</b>	<b>40</b>	<b>40</b>
Foreign tax credit.....	5	20	26	37	25	22	19	20
Investment credit.....	1	6	13	15	15	19	17	16
<b>Income tax after credits <sup>5</sup></b> .....	<b>28</b>	<b>39</b>	<b>63</b>	<b>65</b>	<b>62</b>	<b>57</b>	<b>45</b>	<b>52</b>

<sup>1</sup> Includes items not shown separately. <sup>2</sup> Appropriated and unappropriated. <sup>3</sup> Includes interest on Government obligations issued by U.S. State and local governments. <sup>4</sup> Reduced by net short-term capital loss. <sup>5</sup> Consists of normal tax, surtax and alternative tax for tax years 1970 through 1979 and beginning 1980, regular tax and alternative tax. Tax year 1970 includes surcharge of \$784 million.

Source: U.S. Internal Revenue Service, *Statistics of Income, Corporations Income Tax Returns*, annual.

**NO. 873. ACTIVE CORPORATIONS—INCOME TAX RETURNS, BY ASSET SIZE-CLASS, 1980 AND 1983,  
and BY INDUSTRY, 1983**

[In billions of dollars, except as indicated. Detail may not add to total because of rounding and the exclusion of data to prevent disclosure of individual taxpayer's identity. See headline and footnotes, table 506. See also *Historical Statistics, Colonial Times to 1970*, series V 167-183 and V 193-196]

INDUSTRY AND ITEM	Total	ASSET SIZE-CLASS					
		Under 10 mil. dol.	10-24.9 mil. dol.	25-49.9 mil. dol.	50-99.9 mil. dol.	100-249.9 mil. dol.	250 mil. dol. and over
1980							
Number of returns (1,000).....	2,711	2,675	17	8	5	3	3
Returns with—							
Assets, end of year (1,000).....	2,632	2,597	17	8	5	3	3
Net income (1,000).....	1,597	1,571	13	6	3	2	2
Income tax less credits <sup>1</sup> (1,000).....	989	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Total receipts <sup>2</sup> .....	6,361.3	1,990.5	307.4	214.5	246.4	371.0	3,229.5
Business receipts.....	5,731.6	1,911.5	287.6	192.7	218.9	329.8	2,789.0
Interest <sup>3</sup> .....	366.9	30.5	11.1	15.4	19.6	29.0	261.4
Total deductions <sup>4</sup> .....	6,125.4	1,953.0	296.8	205.4	236.0	355.5	3,076.8
Cost of sales and operations.....	4,204.9	1,364.4	223.4	146.3	167.3	248.7	2,053.5
Interest paid.....	344.6	49.7	11.1	12.9	16.9	24.7	228.2
Receipts less deductions.....	235.9	37.5	10.6	9.1	10.4	15.6	152.7
Net income less deficit.....	239.0	37.2	10.3	8.4	9.8	14.8	158.4
Income tax <sup>4</sup> .....	105.1	17.3	4.8	3.8	4.1	6.4	68.8
Income tax less credits <sup>1</sup> .....	63.0	14.4	4.1	3.1	3.2	4.7	33.4
Distributions to stockholders <sup>5</sup> .....	97.4	8.9	2.3	2.4	3.3	5.7	74.8
1983							
Number of returns (1,000).....	2,999	2,959	19	9	6	4	3
Returns with—							
Assets, end of year (1,000).....	2,886	2,845	19	9	6	4	3
Net income (1,000).....	1,676	1,650	13	6	4	2	2
Income tax less credits <sup>1</sup> (1,000).....	964	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Total receipts <sup>2</sup> .....	7,135.5	2,256.9	352.9	243.6	245.1	379.0	3,658.7
Business receipts.....	6,334.6	2,162.4	330.5	216.5	210.8	329.6	3,085.7
Interest <sup>3</sup> .....	511.3	31.9	11.2	17.2	24.7	33.8	392.3
Total deductions <sup>4</sup> .....	6,945.5	2,231.1	343.9	236.1	237.1	367.2	3,529.8
Cost of sales and operations.....	4,308.2	1,458.2	244.4	156.3	150.7	231.6	2,066.8
Interest paid.....	475.1	53.3	12.1	15.0	20.4	29.7	344.6
Receipts less deductions.....	190.0	25.8	9.0	7.5	7.9	10.8	128.9
Net income less deficit.....	188.3	25.3	8.6	6.7	6.9	9.8	131.0
Income tax <sup>4</sup> .....	92.2	14.8	4.6	3.6	3.6	5.4	60.3
Income tax less credits <sup>1</sup> .....	51.9	12.0	3.9	2.9	2.8	4.1	26.3
Distributions to stockholders <sup>5</sup> .....	128.3	11.4	2.9	3.2	3.5	7.3	100.0
Percent distribution:							
Number of returns.....	100.0	98.6	.8	.3	.2	.1	.1
Total assets or liabilities.....	100.0	9.7	2.8	3.1	3.9	5.8	74.7
Total receipts.....	100.0	31.6	4.9	3.4	3.4	5.2	51.2
Total deductions.....	100.0	32.1	4.9	3.3	3.4	5.2	50.8
Net income less deficit.....	100.0	13.4	4.5	3.5	3.6	5.2	69.5
Income tax <sup>4</sup> .....	100.0	15.9	4.9	3.9	3.9	5.8	65.4
Agriculture, forestry, and fishing:							
Number of returns.....	92,125	91,769	269	42	33	8	4
Total assets or liabilities.....	50.3	39.7	4.0	1.5	2.3	1.2	1.5
Total receipts.....	59.2	46.7	4.8	2.5	2.8	1.1	1.3
Mining:							
Number of returns.....	37,066	35,943	606	229	128	77	81
Total assets or liabilities.....	194.4	19.9	9.4	7.9	8.8	15.1	133.3
Total receipts.....	132.4	23.1	5.8	5.6	4.5	7.9	85.5
Construction:							
Number of returns.....	283,519	282,045	1,026	281	89	45	32
Total assets or liabilities.....	161.4	91.7	15.2	9.6	7.3	8.4	31.1
Total receipts.....	290.8	210.8	21.6	12.6	9.5	7.1	29.2
Manufacturing:							
Number of returns <sup>6</sup> .....	261,927	254,251	4,171	1,521	743	571	659
Total assets or liabilities.....	2,233.0	163.8	63.9	53.2	54.8	113.5	1,783.8
Total receipts.....	2,552.8	377.5	109.1	82.5	78.2	142.9	1,762.3
Transportation and public utilities:							
Number of returns.....	122,567	121,106	684	255	115	113	286
Total assets or liabilities.....	998.9	38.4	10.6	9.0	6.1	17.9	914.7
Total receipts.....	657.4	89.1	13.3	9.7	8.7	15.9	520.7
Wholesale and retail trade:							
Number of returns.....	851,785	846,333	3,481	993	464	301	213
Total assets or liabilities.....	804.2	321.0	52.5	34.5	34.0	52.8	309.5
Total receipts.....	2119.4	1,108.1	153.1	82.2	84.5	129.4	562.1
Finance, insurance, real estate:							
Number of returns.....	479,656	458,674	7,346	5,257	3,925	2,366	2,064
Total assets or liabilities.....	5,487.2	166.0	120.6	188.5	273.3	366.2	4,372.6
Total receipts.....	902.8	103.7	23.7	34.1	41.4	54.0	646.0
Services:							
Number of returns.....	848,394	846,407	1,221	354	210	124	79
Total assets or liabilities.....	269.8	125.7	18.8	12.8	15.3	21.6	75.5
Total receipts.....	416.5	294.1	21.2	14.5	15.3	19.8	51.8

NA Not available. <sup>1</sup> Credits include foreign tax and investment credits; for 1980, work incentive (WIN) credit; U.S. possessions tax credit; jobs credit; nonconventional source fuel and alcohol fuel credits; research credit; employee stock ownership credit; and for 1983, orphan drug credit. <sup>2</sup> Includes items not shown separately. <sup>3</sup> Includes interest on Government obligations and other interest. <sup>4</sup> Income tax is before deduction of credits elaborated in footnote 1. <sup>5</sup> Other than own stock. <sup>6</sup> Includes returns with zero assets.

Source: U.S. Internal Revenue Service, *Statistics of Income, Corporation Income Tax Returns*, annual.

# NO. 874. FIXED NONRESIDENTIAL PRIVATE CAPITAL VALUED IN CURRENT AND CONSTANT (1982) DOLLARS: 1970 TO 1985

[In billions of dollars. Stocks as of Dec. 31; depreciation over entire calendar year. Data refer to privately owned assets and are based on the fixed capital formation components of the gross national product. Excludes residential capital and government enterprises; includes nonprofit institutions. Gross stocks allow for retirement; net stocks allow for retirement and depreciation. Net stock and depreciation estimates are based on the straight-line depreciation formula]

ITEM	CURRENT DOLLARS					CONSTANT (1982) DOLLARS				
	1970	1975	1980	1984	1985	1970	1975	1980	1984	1985
<b>All Industries: <sup>1</sup></b>										
Gross stocks .....	1,453.4	2,661.7	4,844.4	6,429.7	6,701.4	3,737.8	4,513.3	5,420.0	6,129.8	6,344.5
Equipment .....	679.3	1,252.2	2,353.3	3,162.7	3,297.0	1,620.0	2,084.4	2,651.1	3,024.4	3,145.3
Structures .....	774.1	1,409.5	2,491.1	3,267.1	3,404.4	2,117.8	2,428.8	2,768.9	3,105.4	3,199.2
Net stocks .....	865.1	1,571.0	2,807.4	3,628.3	3,777.3	2,212.2	2,654.6	3,137.7	3,458.4	3,573.4
Equipment .....	395.0	718.7	1,336.8	1,733.2	1,803.7	939.8	1,192.7	1,505.5	1,683.3	1,730.1
Structures .....	470.2	852.3	1,470.6	1,895.1	1,968.0	1,272.4	1,461.9	1,632.2	1,795.1	1,843.3
Depreciation .....	68.4	125.4	233.9	324.5	341.0	174.7	220.4	277.8	321.9	336.5
Equipment .....	46.7	84.7	159.4	223.4	234.7	109.7	145.5	188.8	218.0	228.7
Structures .....	21.7	40.7	74.5	101.1	106.3	65.1	74.9	89.0	103.9	107.8
<b>Manufacturing:</b>										
Gross stocks .....	340.6	601.0	1,108.1	1,445.1	1,492.5	856.8	1,023.9	1,236.4	1,361.4	1,390.9
Equipment .....	218.1	391.7	741.5	963.0	995.3	540.4	664.4	832.0	928.2	951.3
Structures .....	122.5	209.3	366.6	482.1	497.1	316.4	359.5	404.4	433.2	439.6
Net stocks .....	203.8	351.3	633.9	789.8	808.7	513.3	597.2	707.2	745.3	755.5
Equipment .....	126.8	226.3	424.9	526.8	539.7	314.3	382.5	476.6	508.9	517.7
Structures .....	77.0	125.0	209.0	263.0	269.0	199.0	214.7	230.6	236.4	237.9
Depreciation .....	18.5	28.7	53.1	71.7	74.5	40.8	49.8	62.0	70.0	72.0
Equipment .....	12.7	22.0	41.8	56.5	58.6	30.6	38.1	48.9	56.0	57.8
Structures .....	3.8	6.7	11.3	15.2	15.9	10.2	11.7	13.1	14.0	14.2

<sup>1</sup> Includes farm, not shown separately.

## NO. 875. FIXED NONRESIDENTIAL BUSINESS CAPITAL—AVERAGE AGE OF GROSS STOCKS, USING CONSTANT (1982) COST VALUATION: 1970 TO 1985

[Age in years. As of Dec. 31. See headnote, table 874]

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>All Industries: Gross stocks</b> .....	11.8	11.4	11.4	11.4	11.3	11.2	11.2	11.3	11.4	11.4	11.4
Equipment .....	7.5	7.5	7.5	7.5	7.4	7.4	7.4	7.6	7.6	7.6	7.6
Structures .....	15.1	14.8	14.9	15.0	15.0	14.9	14.9	14.9	15.0	15.0	15.0
<b>Manufacturing: Gross stocks</b> .....	9.7	10.0	10.2	10.2	10.2	10.2	10.2	10.3	10.5	10.7	10.8
Equipment .....	8.4	8.5	8.5	8.5	8.4	8.4	8.4	8.5	8.7	8.8	8.9
Structures .....	11.9	12.9	13.3	13.5	13.6	13.8	13.9	14.1	14.4	14.6	14.8
<b>Nonfarm nonmfg.: Gross stocks</b> .....	12.6	12.0	12.0	11.9	11.8	11.7	11.6	11.7	11.7	11.6	11.5
Equipment .....	7.2	7.2	7.2	7.1	7.0	7.1	7.1	7.2	7.2	7.1	7.0
Structures .....	15.7	15.1	15.2	15.2	15.2	15.1	15.0	15.0	15.0	15.0	15.0
<b>Farm: Gross stocks</b> .....	9.9	9.7	9.7	9.7	9.7	9.9	10.2	10.6	11.1	11.5	12.0
Equipment .....	5.7	5.6	5.7	5.8	5.8	6.0	6.2	6.5	6.8	7.1	7.4
Structures .....	15.1	15.1	14.9	14.9	14.9	15.0	15.2	15.6	16.0	16.5	17.0

Source of tables 874 and 875: U.S. Bureau of Economic Analysis, *Survey of Current Business*, January 1986, and unpublished data.

## NO. 876. GROSS PRIVATE DOMESTIC INVESTMENT: 1970 TO 1985

[In billions of dollars]

YEAR	CURRENT DOLLARS						CONSTANT (1982) DOLLARS					
	Gross private domestic investment				Less: capital consumption allowances <sup>2</sup>	Equals: Net private domestic investment	Gross private domestic investment				Less: capital consumption allowances <sup>2</sup>	Equals: Net private domestic investment
	Total <sup>1</sup>	Fixed investment	Nonresidential	Residential			Total <sup>1</sup>	Fixed investment	Nonresidential	Residential		
1970 .....	148.8	145.7	105.2	40.5	88.8	60.0	381.5	373.3	264.0	109.3	229.8	151.8
1975 .....	219.6	225.2	162.9	62.3	161.8	57.8	383.3	396.1	281.2	114.9	287.0	96.3
1976 .....	277.7	261.7	180.0	81.7	179.2	98.4	453.5	431.4	290.6	140.8	297.3	156.2
1977 .....	344.1	322.8	214.2	108.6	201.5	142.5	521.3	492.2	324.0	168.1	309.6	211.7
1978 .....	416.8	388.2	259.0	129.2	229.9	186.9	576.9	540.2	362.1	178.0	323.7	234.0
1979 .....	454.8	441.9	302.8	139.1	265.8	189.1	575.2	560.2	389.4	170.8	341.3	240.4
1980 .....	497.0	445.3	322.8	122.5	303.8	133.1	509.3	516.2	379.2	137.0	356.1	153.2
1981 .....	515.5	491.5	369.2	122.3	347.8	167.7	545.5	521.7	395.2	126.5	369.7	175.8
1982 .....	447.3	471.8	368.7	105.1	383.2	64.1	447.3	471.8	366.7	105.1	383.2	64.1
1983 .....	502.3	509.4	368.9	152.5	396.6	105.7	504.0	510.4	381.2	149.3	394.4	109.6
1984 .....	662.1	598.0	418.5	181.4	415.1	247.0	652.0	592.8	422.2	170.6	407.1	244.8
1985 .....	661.1	650.0	458.2	191.8	437.2	223.9	647.7	638.6	461.4	177.2	425.6	222.0

<sup>1</sup> Includes change in inventories, not shown separately.

<sup>2</sup> With capital consumption adjustment.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

## NO. 877. GROSS STOCK OF FIXED PRIVATE CAPITAL, NONRESIDENTIAL AND RESIDENTIAL, BY INDUSTRY: 1975 TO 1984

(In billions of dollars)

INDUSTRY	CURRENT DOLLARS				CONSTANT (1982) DOLLARS			
	1975	1980	1983	1984	1975	1980	1983	1984
<b>Fixed private capital</b> .....	<b>4,756.0</b>	<b>8,942.8</b>	<b>10,961.3</b>	<b>11,612.0</b>	<b>8,313.1</b>	<b>9,813.2</b>	<b>10,569.6</b>	<b>10,867.2</b>
<b>Nonresidential</b> .....	<b>2,661.7</b>	<b>4,844.4</b>	<b>6,126.7</b>	<b>6,472.8</b>	<b>4,513.3</b>	<b>5,420.0</b>	<b>5,923.4</b>	<b>6,112.5</b>
Agriculture, forestry and fisheries.....	188.1	319.2	380.8	388.2	295.6	357.4	356.6	351.3
Farms.....	157.2	295.2	349.7	355.9	276.6	330.6	327.2	321.4
Agr. serv., forestry, and fisheries.....	10.9	24.0	31.1	32.4	18.0	26.7	29.4	29.9
Mining.....	156.5	358.0	478.3	486.8	353.5	441.2	517.1	533.9
Metal mining.....	12.9	26.4	33.1	34.9	23.0	30.0	31.7	32.3
Coal mining.....	10.7	31.7	44.5	45.9	19.8	36.5	43.2	43.7
Oil and gas extraction.....	123.9	282.5	378.7	383.8	294.6	354.8	421.1	437.0
Nonmetallic minerals, exc. fuels.....	8.9	17.4	22.0	22.4	16.2	19.9	21.1	20.9
Construction.....	54.3	100.3	111.5	110.7	95.9	113.1	106.6	103.3
Manufacturing.....	601.0	1,106.1	1,387.3	1,454.0	1,023.9	1,236.4	1,337.2	1,369.9
Durable goods.....	324.2	604.9	758.4	793.8	553.4	674.1	733.6	752.7
Lumber and wood products.....	15.1	28.8	32.8	33.4	26.3	32.2	31.3	30.8
Furniture and fixtures.....	4.9	8.9	10.8	11.3	8.4	9.9	10.4	10.5
Stone, clay, glass products.....	26.3	47.4	55.0	55.8	45.4	52.7	53.8	53.1
Primary metal industries.....	82.6	141.8	170.2	174.9	141.4	159.1	163.6	164.3
Fabricated metal products.....	35.7	68.6	84.1	86.8	61.9	76.3	81.0	81.7
Machinery, exc. electrical.....	47.9	94.9	125.6	133.8	79.3	105.0	124.1	131.2
Elec. and elec. equipment.....	35.5	70.2	99.3	108.7	59.3	78.8	95.6	102.6
Motor vehicles and equipment.....	38.6	72.5	88.6	91.8	67.3	80.5	85.7	87.1
Other transp. equipment.....	21.4	40.3	51.5	54.2	36.5	44.9	49.5	50.8
Instruments, related products.....	10.3	19.9	26.7	28.5	17.4	22.0	25.8	27.1
Misc. mfg. industries.....	6.0	11.6	13.9	14.5	10.2	12.9	13.4	13.6
Nondurable goods.....	276.8	503.2	628.9	660.2	470.4	562.3	603.6	617.2
Food and kindred products.....	57.3	100.4	123.2	128.3	97.7	112.0	117.9	119.1
Tobacco manufacturers.....	2.7	5.2	8.0	8.6	4.5	5.9	7.7	8.0
Textile mill products.....	20.6	33.9	39.0	40.0	35.8	38.0	37.2	36.9
Apparel; other textile products.....	6.2	11.1	13.0	13.4	10.6	12.4	12.5	12.5
Paper and allied products.....	36.6	68.5	86.4	91.1	62.4	77.2	83.1	85.7
Printing and publishing.....	19.4	35.7	45.8	49.3	33.3	39.7	44.1	46.3
Chemicals, allied products.....	76.0	141.9	176.1	184.0	126.8	158.6	169.5	173.1
Petroleum and coal products.....	38.0	68.6	92.0	98.3	64.5	76.3	88.2	91.4
Rubber, misc. plastic products.....	18.4	35.2	42.0	43.8	32.2	39.2	40.4	41.0
Leather and leather products.....	1.6	2.7	3.2	3.4	2.8	3.0	3.1	3.1
<b>Transportation and public utilities</b> .....	<b>878.7</b>	<b>1,464.5</b>	<b>1,801.1</b>	<b>1,882.5</b>	<b>1,408.1</b>	<b>1,621.9</b>	<b>1,721.5</b>	<b>1,793.5</b>
Transportation.....	312.8	501.2	565.2	580.2	518.5	551.1	548.5	549.6
Railroad transportation.....	171.5	297.6	248.5	249.9	276.5	258.3	242.1	237.1
Local, interurban pass. transit.....	7.0	9.3	9.6	9.5	11.2	10.2	9.2	8.8
Trucking and warehousing.....	37.8	75.7	93.5	102.8	66.7	84.7	88.6	84.0
Water transportation.....	26.7	50.9	64.7	66.4	45.2	57.3	63.3	64.0
Transportation by air.....	30.9	60.4	76.6	79.1	57.6	69.1	74.6	76.2
Pipelines, exc. natural gas.....	20.0	34.8	37.4	37.5	30.8	36.8	36.5	36.0
Transportation services.....	18.8	32.4	34.9	35.0	31.5	34.9	33.9	33.4
Communication.....	195.6	348.4	490.8	531.8	291.0	392.2	454.4	474.5
Telephone and telegraph.....	185.0	327.2	464.3	503.1	274.0	370.3	429.4	448.4
Radio and TV broadcasting.....	10.7	19.2	26.6	28.6	17.1	21.8	25.0	26.1
Elec. gas, and sanitary services.....	370.4	616.8	745.1	770.6	597.5	678.8	718.6	729.4
Electric services.....	273.8	467.9	577.0	597.5	447.0	521.0	554.7	563.4
Gas services.....	87.0	132.2	148.9	153.1	135.0	140.5	145.3	146.7
Sanitary services.....	9.7	16.7	19.1	20.1	15.6	17.2	18.6	19.3
<b>Wholesale trade</b> .....	<b>78.8</b>	<b>152.3</b>	<b>200.9</b>	<b>223.3</b>	<b>129.5</b>	<b>167.5</b>	<b>195.9</b>	<b>214.6</b>
<b>Retail trade</b> .....	<b>138.1</b>	<b>258.1</b>	<b>340.8</b>	<b>373.1</b>	<b>232.1</b>	<b>285.1</b>	<b>323.2</b>	<b>341.3</b>
<b>Finance, insurance, real estate</b> .....	<b>388.2</b>	<b>716.1</b>	<b>944.9</b>	<b>1,032.0</b>	<b>645.6</b>	<b>789.2</b>	<b>903.5</b>	<b>956.9</b>
Banking.....	36.5	78.3	107.3	117.0	59.9	86.3	106.2	115.1
Credit agencies other than banks.....	26.1	59.9	80.7	88.5	42.4	65.5	79.4	86.6
Security, commodity brokers, and services.....	1.7	2.9	3.8	4.1	2.7	3.2	3.8	4.1
Insurance carriers.....	9.4	18.9	21.6	23.5	14.6	18.3	21.7	23.7
Ins. agents brokers, and services.....	2.6	4.3	5.1	5.3	3.8	4.6	5.2	5.4
Real estate.....	307.8	546.4	716.5	783.0	516.1	603.3	677.3	711.4
Holding, other investment co.....	4.2	7.3	9.9	10.8	6.2	7.9	9.9	10.8
<b>Services</b> .....	<b>197.9</b>	<b>367.8</b>	<b>481.1</b>	<b>522.0</b>	<b>329.0</b>	<b>408.2</b>	<b>461.7</b>	<b>487.8</b>
Hotels, other lodging places.....	36.5	63.2	84.0	93.5	62.1	69.8	78.4	84.8
Personal services.....	13.3	21.3	25.1	26.2	21.5	23.5	24.1	24.3
Business services.....	40.2	82.7	111.9	120.5	66.5	92.3	109.8	117.3
Auto repair, serv., garages.....	30.7	61.5	81.0	90.1	52.0	68.7	77.6	84.0
Misc. repair services.....	5.0	9.8	12.4	13.1	8.8	11.0	11.9	12.3
Motion pictures.....	5.1	8.7	10.2	10.7	7.7	9.3	10.0	10.3
Amusement, recreation services.....	17.4	30.1	37.1	39.0	28.4	33.6	35.3	36.0
Other services.....	49.8	90.4	119.3	129.0	82.2	100.0	113.8	118.9
Health services.....	26.6	49.6	71.5	78.0	44.0	55.1	68.1	72.8
Legal services.....	4.1	6.5	7.6	7.8	6.6	7.1	7.2	7.2
Educational services.....	1.7	2.3	2.5	2.6	2.5	2.5	2.6	2.7
Other <sup>1</sup> .....	17.4	32.1	37.8	39.5	29.1	35.3	35.8	36.2
<b>Residential</b> .....	<b>2,094.3</b>	<b>4,098.4</b>	<b>4,834.6</b>	<b>5,139.1</b>	<b>3,799.9</b>	<b>4,393.1</b>	<b>4,646.2</b>	<b>4,774.7</b>
Farms.....	78.3	127.4	139.6	144.0	137.8	137.3	133.9	133.2
Real estate.....	2,017.9	3,971.0	4,695.0	4,995.1	3,662.1	4,255.8	4,512.4	4,641.5

<sup>1</sup> Includes social services, membership organizations, and miscellaneous professional services.

## NO. 878. BUSINESS EXPENDITURES FOR NEW PLANT AND EQUIPMENT: 1970 TO 1986

[In billions of dollars. Based on sample and subject to sampling variability; see text, section 17. The figures cover expenditures both for new facilities and for expansion or replacement of existing facilities that are chargeable to fixed asset accounts and for which depreciation or amortization accounts are ordinarily maintained. They exclude expenditures for land and mineral rights; maintenance and repair; used plant and equipment, including that purchased or acquired through mergers or acquisitions; assets located in foreign countries; residential structures; and a few other items. They also differ from the nonresidential fixed investment data in type of detail, data sources, coverage, and timing. For further information, see the February 1985 *Survey of Current Business*]

INDUSTRY	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986 <sup>1</sup>
<b>CURRENT DOLLARS</b>											
All Industries <sup>2</sup>	91.9	142.4	217.8	255.0	282.8	315.2	310.6	304.8	354.4	386.4	395.1
Manufacturing	37.0	53.7	78.6	95.9	112.3	126.5	120.7	116.2	138.8	153.1	151.8
Durable goods <sup>3</sup>	19.8	25.4	39.5	48.5	55.4	59.8	55.4	53.1	66.2	73.1	71.0
Primary metals	3.2	5.4	5.1	6.1	6.8	7.4	6.9	6.0	7.1	7.7	7.7
Fabricated metals	1.2	2.0	2.9	3.2	3.3	3.6	3.1	2.8	3.4	3.6	3.8
Electrical machinery	3.5	3.1	5.9	7.5	9.8	10.6	11.0	11.4	14.6	15.6	13.9
Machinery, except electrical	3.8	4.9	7.4	10.2	11.4	13.7	13.4	13.5	15.4	16.0	15.3
Transportation equipment <sup>4</sup>	4.6	5.5	10.8	13.0	15.0	15.4	12.6	11.3	16.2	19.3	19.4
Motor vehicles	3.0	3.3	7.2	8.3	9.0	9.8	7.8	7.3	11.2	14.4	14.7
Aircraft	.9	1.2	3.6	2.7	3.8	3.4	3.4	2.9	3.6	3.5	3.6
Stone, clay, and glass	1.1	1.7	3.2	4.0	4.0	3.4	2.9	2.8	3.1	3.4	3.2
Nondurable goods	17.2	28.3	39.1	47.4	57.0	66.7	65.3	63.1	72.6	80.0	80.9
Food and beverage	3.9	4.4	6.5	7.3	8.2	9.5	8.7	7.8	8.8	10.3	10.8
Paper	1.7	2.9	3.8	5.2	6.5	6.1	5.6	5.9	7.2	8.5	8.9
Chemicals	3.4	7.1	7.8	9.8	11.6	13.1	12.7	13.0	15.3	16.5	17.4
Petroleum	5.2	9.1	13.2	15.2	19.6	28.0	26.4	23.1	25.5	26.7	24.5
Rubber	.9	1.2	2.3	2.5	2.0	2.2	2.2	2.5	3.1	3.8	3.9
Nonmanufacturing <sup>5</sup>	54.9	88.8	139.2	159.0	170.5	188.7	189.9	188.6	215.6	233.3	243.3
Mining	2.0	6.1	11.2	12.8	16.0	21.4	20.0	15.2	16.9	15.9	13.9
Public utilities	13.0	20.2	31.5	35.6	37.7	41.2	45.4	45.0	47.5	48.7	46.5
Transportation	7.2	9.9	13.4	16.0	16.6	15.8	14.8	14.0	16.5	18.0	19.0
Commercial and other	32.7	52.5	83.1	94.6	100.1	110.2	108.6	114.5	134.8	150.7	161.9
Wholesale and retail trade	8.8	14.8	25.4	26.7	28.4	30.2	30.4	37.0	44.9	50.7	(NA)
Finance and insurance	3.9	10.0	13.3	17.5	21.2	26.0	27.2	28.4	33.9	39.2	(NA)
Personal and business serv. <sup>6</sup>	9.6	14.8	24.9	25.8	25.6	27.2	25.9	25.0	28.7	27.8	(NA)
Communication	10.4	12.9	19.4	22.5	24.9	26.9	26.1	24.0	27.2	32.0	(NA)
Addenda: <sup>7</sup>											
Total nonfarm business <sup>8</sup>	106.1	162.6	245.3	284.9	314.5	349.3	347.5	343.3	399.0	431.2	445.3
Manufacturing	37.0	53.7	78.6	95.9	112.3	126.5	120.7	116.2	138.8	153.1	151.8
Nonmanufacturing	69.2	108.9	166.8	189.0	202.1	222.7	226.8	227.1	260.2	278.1	293.5
Surveyed quarterly	54.9	88.8	139.2	159.0	170.5	188.7	189.9	188.6	215.6	233.3	243.3
Surveyed annually <sup>9</sup>	14.2	20.2	27.6	30.0	31.7	34.0	36.9	38.6	44.6	44.8	50.2
<b>CONSTANT (1982) DOLLARS<sup>8</sup></b>											
All Industries <sup>2</sup>	229.9	246.1	304.4	327.1	332.7	337.1	310.6	306.7	352.9	379.4	383.0
Manufacturing	97.2	97.7	113.1	125.5	133.9	136.1	120.7	119.6	142.2	154.7	151.7
Durable goods <sup>3</sup>	48.5	49.8	55.0	62.0	64.4	63.6	55.4	52.9	65.5	71.6	69.0
Primary metals	8.3	9.6	7.2	7.8	7.9	7.9	6.9	5.9	7.0	7.4	(NA)
Fabricated metals	3.0	3.4	4.1	4.1	3.9	3.8	3.1	2.8	3.4	3.4	(NA)
Electrical machinery	8.0	5.0	7.9	9.5	11.3	11.3	11.0	11.2	14.2	15.1	(NA)
Machinery, except electrical	9.1	8.2	10.1	12.8	13.1	14.4	13.4	13.5	15.3	15.8	(NA)
Transportation equipment <sup>4</sup>	11.6	9.8	15.4	16.9	17.6	16.5	12.6	11.5	16.3	19.2	(NA)
Motor vehicles	7.5	5.9	10.1	10.7	10.5	10.4	7.8	7.3	11.1	14.1	(NA)
Aircraft	2.2	2.1	2.5	3.5	4.2	3.6	3.4	3.1	3.8	3.7	(NA)
Stone, clay, and glass	2.7	2.9	4.4	5.2	4.7	3.6	2.9	2.8	3.0	3.3	(NA)
Nondurable goods	48.7	53.9	58.2	63.5	69.5	72.5	65.3	66.7	76.7	83.0	82.6
Food and beverage	8.2	7.5	9.1	9.3	9.5	10.1	8.7	7.7	8.6	9.8	(NA)
Paper	4.5	5.1	5.3	8.8	7.6	6.5	5.6	5.9	7.0	8.2	(NA)
Chemicals	8.8	12.5	10.9	12.7	13.7	14.0	12.7	13.1	15.3	16.3	(NA)
Petroleum	18.4	20.6	21.9	22.3	25.9	29.2	26.4	27.0	30.5	31.3	(NA)
Rubber	2.3	2.1	3.3	3.1	2.4	2.3	2.2	2.4	3.0	3.7	(NA)
Nonmanufacturing <sup>5</sup>	132.7	148.4	191.3	201.6	198.8	201.0	189.9	187.1	210.7	224.7	231.3
Mining	7.0	13.7	18.4	18.7	21.2	24.1	20.0	17.4	19.7	18.2	15.7
Public utilities	34.6	34.2	43.4	45.4	43.7	43.5	45.4	43.7	45.2	45.9	45.2
Transportation	18.4	17.3	18.8	20.6	19.2	16.8	14.8	13.6	15.7	16.6	16.7
Commercial and other	72.8	83.3	110.7	116.8	114.7	116.7	109.6	112.3	130.1	144.1	153.7
Wholesale and retail trade	20.0	24.3	34.4	35.6	32.3	31.6	30.4	36.3	42.9	47.6	(NA)
Finance and insurance	7.9	14.8	16.7	20.6	23.3	26.9	27.2	28.7	34.5	40.2	(NA)
Personal and business serv. <sup>6</sup>	23.4	25.2	34.3	32.6	29.5	28.8	25.9	24.6	27.8	27.4	(NA)
Communication	21.4	19.1	25.3	26.0	29.6	29.4	26.1	22.7	24.9	28.8	(NA)
Addenda: <sup>7</sup>											
Total nonfarm business <sup>8</sup>	261.3	277.8	340.6	363.6	368.3	372.8	347.5	345.1	396.8	429.5	432.6
Manufacturing	97.2	97.7	113.1	125.5	133.9	136.1	120.7	119.6	142.2	154.7	151.7
Nonmanufacturing	164.1	180.1	227.5	238.2	234.4	236.7	226.8	225.4	254.6	265.8	280.9
Surveyed quarterly	132.7	148.4	191.3	201.6	198.8	201.0	189.9	187.1	210.7	224.7	231.3
Surveyed annually <sup>9</sup>	31.4	31.7	36.2	36.6	35.7	35.7	36.9	38.3	43.9	44.0	49.6

NA Not available.

<sup>1</sup> Estimates based on planned capital expenditures as reported by business in January through March 1986.

<sup>2</sup> Surveyed quarterly.

<sup>3</sup> Includes industries not shown separately.

<sup>4</sup> Includes construction.

<sup>5</sup> Quarterly estimates for selected nonmanufacturing industries were discontinued effective with the April-May 1984 survey. Annual estimates for these industries are based on capital expenditures reported by business in January through March each year.

<sup>6</sup> "All industries" plus the part of nonmanufacturing that is surveyed annually.

<sup>7</sup> Consists of real estate; professional services; membership organizations and social services; and forestry, fishery, and agricultural services.

<sup>8</sup> Procedures for preparing constant-dollar estimates are described in the February 1985 *Survey of Current Business*. To estimate real spending plans, BEA adjusts the survey results for assumed price changes.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, monthly.

## No. 879. COMPOSITE INDEXES OF ECONOMIC CYCLICAL INDICATORS: 1975 TO 1985

(1985 figures are preliminary. See source for discussion of composite indexes. Minus sign (-) indicates decrease)

ITEM	Unit	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>LEADING INDICATORS</b>											
<b>Composite index</b> .....	1967=100.	115.7	139.4	145.8	145.1	138.2	140.9	136.8	156.0	165.7	169.1
Net business formation .....	1967=100.	109.9	130.8	138.1	138.3	129.9	124.8	116.4	117.5	121.3	121.2
Building permits <sup>1</sup> .....	1967=100.	80.9	144.9	145.4	123.6	96.7	80.0	80.7	131.1	134.8	138.1
Common stock prices, index <sup>2</sup> .....	1941=43=10	88.2	98.2	96.0	103.0	118.8	128.0	119.7	160.4	160.5	166.8
Initial claims, unemployment insurance .....	1,000	468	368	338	379	480	448	578	426	366	393
Change in sensitive prices <sup>3,4</sup> .....	Percent	-3	4	1.3	9	-	-8	-7	1.0	-2	-4
Change in credit outstanding <sup>5</sup> .....	Percent	3.1	15.0	14.5	13.2	6.1	7.0	1.4	5.8	15.2	10.0
Vendor performance, slower deliveries .....	Percent	30	55	64	69	40	45	37	54	61	45
Average workweek, manufacturing <sup>6</sup> .....	Hours	39.5	40.3	40.4	40.2	39.7	39.8	38.9	40.1	40.7	40.5
Change in inventories (1982 dol.) <sup>7</sup> .....	Bil. dol.	-37	29	45	19	-15	2	-33	4	49	4
Plant and equipment contracts and orders (1982 dol.) .....	Bil. dol.	264	327	380	406	360	351	297	324	382	391
New orders, manufacturing, consumer goods and materials (1982 dol.) .....	Bil. dol.	767	867	1,022	1,003	891	888	782	903	987	1,015
Money supply (M2) <sup>8</sup> (1982 dol.) .....	Bil. dol.	1,738	1,965	1,982	1,929	1,835	1,820	1,874	2,043	2,117	2,230
<b>COINCIDENT INDICATORS</b>											
<b>Composite index</b> .....	1967=100.	116.2	133.6	144.0	150.2	144.8	146.0	136.3	139.9	154.5	160.3
Industrial production index .....	1977=100.	84.8	100.0	106.5	110.7	108.6	111.0	103.1	109.2	121.8	124.5
Employees, nonagricultural payrolls .....	Million	76.9	82.5	86.7	89.8	90.4	91.2	89.6	90.2	94.5	97.7
Personal income less transfer payments (1982 dol.) .....	Bil. dol.	1,894	2,070	2,191	2,253	2,233	2,275	2,261	2,305	2,456	2,516
Sales, mfg. and trade (1982 dol.) .....	Bil. dol.	3,578	4,092	4,330	4,458	4,344	4,361	4,186	4,365	4,748	4,900
<b>LAGGING INDICATORS</b>											
<b>Composite index</b> .....	1967=100.	110.9	106.4	114.0	122.6	124.6	122.4	123.0	111.7	117.3	127.0
Labor cost per unit of output, mfg. <sup>9</sup> .....	Percent	104.4	99.0	99.0	98.9	102.0	102.9	104.7	95.6	88.8	85.3
Ratio, consumer installment credit to personal income .....	Percent	12.4	12.8	13.4	13.9	13.2	12.2	12.0	12.3	13.4	15.1
Average prime rate charged by banks .....	Percent	7.9	6.8	8.1	12.7	15.3	18.9	14.9	10.8	12.0	9.9
Average duration of unemployment .....	Weeks	14.2	14.3	11.9	10.8	11.9	13.7	15.6	20.0	18.2	15.6
Ratio inventories to sales, mfg. and trade (1982 dol.) .....	Ratio	1.7	1.6	1.6	1.6	1.6	1.6	1.7	1.6	1.5	1.6
Commercial and industrial loans outstanding (1982 dol.) <sup>10</sup> .....	Bil. dol.	227	199	207	219	225	233	268	261	289	322

- Represents zero. <sup>1</sup> New private housing units authorized. <sup>2</sup> Standard and Poor, 500 stocks. <sup>3</sup> Producer price index of selected crude and intermediate materials and spot market price index of raw industrial materials. <sup>4</sup> Weighted 4-term moving average placed at the terminal month of the span. <sup>5</sup> Business and consumer borrowing. <sup>6</sup> Production workers. <sup>7</sup> Net changes in book value. <sup>8</sup> See table 828. <sup>9</sup> Actual data as percent of trend. <sup>10</sup> Includes commercial paper issued by nonfinancial companies.

Source: U.S. Bureau of Economic Analysis, *Business Conditions Digest*, monthly.

## No. 880. BUSINESS CYCLE EXPANSIONS AND CONTRACTIONS—MONTHS OF DURATION: 1919 TO 1985

[The lower turning point of a cycle is considered a trough, the upper turning point a peak. Business cycle reference dates are determined by the National Bureau of Economic Research, Inc.]

BUSINESS CYCLE REFERENCE DATE		Contraction (trough from previous peak)	Expansion (trough to peak)	LENGTH OF CYCLE	
Trough	Peak			Trough from previous trough	Peak from previous peak
March 1919.....	January 1920.....	7	10	51	17
July 1921.....	May 1923.....	18	22	28	40
July 1924.....	October 1926.....	14	27	36	41
November 1927.....	August 1929.....	13	21	40	34
March 1933.....	May 1937.....	43	50	64	83
June 1938.....	February 1945.....	13	80	63	83
October 1945.....	November 1948.....	8	37	88	45
October 1949.....	July 1953.....	11	45	48	56
May 1954.....	August 1957.....	10	39	55	49
April 1958.....	April 1960.....	8	24	47	32
February 1961.....	December 1969.....	10	106	34	116
November 1970.....	November 1973.....	11	36	117	47
March 1975.....	January 1980.....	16	58	52	74
July 1980.....	July 1981.....	6	12	64	18
November 1982.....	(x)	16	(x)	28	(x)
Average, all cycles:					
1919-1945 (6 cycles).....		18	35	53	53
1945-1982 (8 cycles).....		11	45	56	55
Average, peacetime cycles:					
1919-1945 (5 cycles).....		20	26	46	45
1945-1982 (6 cycles).....		11	34	46	44

X Not applicable.

Source: U.S. Bureau of Economic Analysis, *Business Conditions Digest*, January 1986.

# **No. 881. INTERNATIONAL ECONOMIC COMPOSITE INDEXES—AVERAGE ANNUAL PERCENT CHANGE: 1974 TO 1985**

[Average annual percent changes derived from indexes with base 1980=100. Minus sign (—) indicates decrease]

COUNTRIES	1974- 1975	1975- 1976	1976- 1977	1977- 1978	1978- 1979	1979- 1980	1980- 1981	1981- 1982	1982- 1983	1983- 1984	1984- 1985
<b>LEADING INDEX</b>											
Total, 9 countries.....	-4.9	10.3	3.7	5.2	5.1	-4	.9	-2.3	8.2	7.4	3.4
8 countries, excluding U.S.....	-6.3	9.2	2.1	5.4	9.2	2.8	-1.1	.8	5.1	7.0	5.8
North America.....	-2.9	11.0	5.4	5.1	.7	-4.2	2.2	-6.8	13.1	8.0	.3
United States.....	-2.9	11.6	5.7	4.9	-	-4.7	2.3	-6.5	13.1	8.0	-
Canada.....	-2.5	4.3	2.8	6.5	8.5	1.6	1.2	-9.1	13.6	6.4	4.9
4 European countries.....	-3.6	7.8	2.2	4.3	6.2	1.3	1.4	2.2	4.9	5.3	4.8
France.....	-7.5	10.0	.8	5.1	8.8	3.7	3.0	3.5	4.7	7.7	6.0
Germany, Fed. Rep.....	-.4	9.5	2.7	6.1	7.5	.5	.3	1.7	7.2	5.7	4.8
Italy.....	-4.0	6.1	.2	3.2	6.8	6.4	3.9	.8	2.3	4.6	6.4
United Kingdom.....	-3.2	4.6	4.1	1.7	1.9	-3.2	.5	2.3	3.5	2.5	2.1
3 Pacific region countries.....	-12.3	13.5	1.5	7.7	14.9	5.5	-2.9	.2	3.8	10.2	7.6
Australia.....	-1.7	7.9	.5	6.4	9.3	3.8	.6	-5.2	7.5	9.7	9.5
China: Taiwan.....	9.1	9.7	9.6	14.1	8.2	5.6	6.0	6.5	11.6	10.7	6.2
Japan.....	-14.2	14.5	1.3	7.5	15.9	5.7	-3.7	.7	3.0	10.2	7.5
<b>COINCIDENT INDEX</b>											
Total, 9 countries.....	-4.7	4.7	4.4	5.5	4.3	.2	.3	-2.4	1.6	5.9	3.4
8 countries, excluding U.S.....	-3.1	3.3	3.0	3.8	4.9	2.4	.2	.2	.8	3.4	3.6
North America.....	-6.3	6.5	6.1	7.4	3.6	-2.4	.7	-6.2	2.6	9.5	3.3
United States.....	-7.0	6.7	6.6	7.8	3.5	-2.8	.5	-6.2	2.8	9.9	3.1
Canada.....	.6	4.8	1.7	3.2	4.5	1.7	3.0	-5.8	1.6	4.7	4.7
4 European countries.....	-4.0	2.9	2.7	3.5	4.2	1.5	-1.9	-1.1	.7	2.2	3.0
France.....	-5.0	5.0	3.7	2.8	3.4	2.0	.7	3.8	3.0	1.8	2.5
Germany, Fed. Rep.....	-2.7	3.6	3.4	3.9	5.2	3.1	-.3	-2.0	-1.1	2.8	4.3
Italy.....	-5.0	3.9	2.0	2.5	4.7	5.2	-1.9	-.7	-1.6	2.9	2.4
United Kingdom.....	-4.0	-.8	1.1	4.4	3.9	-3.5	-7.1	-1.4	.5	1.3	2.5
3 Pacific region countries.....	-1.8	3.6	3.9	4.4	6.1	4.0	3.1	1.9	.9	4.9	4.3
Australia.....	-3.6	1.6	-1.4	1.2	3.2	4.4	5.5	-2.4	-7.2	6.2	6.6
China: Taiwan.....	2.7	16.3	9.0	12.2	8.3	5.9	4.0	1.2	5.4	10.6	2.4
Japan.....	-1.8	3.5	4.6	4.5	6.4	3.8	2.8	2.4	1.7	4.4	4.0

- Represents zero.

Source: Center for International Business Cycle Research, Columbia Business School, New York, NY, *International Economic Indicators*, monthly.

# **No. 882. MANUFACTURING AND TRADE—SALES AND INVENTORIES IN CURRENT AND CONSTANT (1982) DOLLARS: 1970 TO 1985**

[In billions of dollars, except ratios]

ITEM	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>CURRENT DOLLARS</b>												
<b>Sales, average monthly</b> .....	107	182	204	230	261	298	328	357	344	369	410	424
Manufacturing.....	53	87	99	113	127	144	154	168	159	170	190	195
Retail trade.....	31	49	55	60	67	75	80	87	89	98	107	114
Merchant wholesalers.....	24	47	51	58	67	79	93	102	96	101	113	115
<b>Inventories</b> <sup>1</sup> .....	178	289	319	351	400	451	494	528	509	520	575	583
Manufacturing.....	102	160	175	189	211	241	254	283	265	261	286	282
Retail trade.....	44	72	79	89	103	111	116	127	126	139	158	165
Merchant wholesalers.....	32	57	64	73	86	99	113	118	118	120	132	136
<b>Inventory-sales ratio</b> <sup>2</sup> .....	1.62	1.52	1.47	1.45	1.44	1.44	1.41	1.52	1.50	1.31	1.37	1.35
Manufacturing.....	1.91	1.77	1.66	1.58	1.55	1.61	1.81	1.74	1.71	1.46	1.46	1.42
Retail trade.....	1.39	1.38	1.38	1.43	1.44	1.42	1.40	1.46	1.38	1.36	1.43	1.41
Merchant wholesalers.....	1.30	1.18	1.20	1.22	1.22	1.16	1.10	1.20	1.27	1.11	1.16	1.16
<b>CONSTANT (1982) DOLLARS</b>												
<b>Sales, average monthly</b> <sup>3</sup> .....	260	306	329	351	373	373	372	357	346	368	404	414
Manufacturing.....	131	149	162	174	183	179	175	167	159	178	186	189
Retail trade.....	70	83	89	93	97	96	93	91	94	102	108	111
Merchant wholesalers.....	60	74	79	84	93	98	104	99	93	102	111	114
<b>Inventories</b> .....	428	496	522	547	578	589	591	602	582	584	631	638
Manufacturing.....	248	282	294	302	314	325	327	330	315	309	330	325
Retail trade.....	97	116	122	131	139	137	130	136	133	142	158	165
Merchant wholesalers.....	83	99	105	114	125	128	134	136	134	143	143	148
<b>Inventory-sales ratios</b> <sup>4</sup> .....	1.64	1.62	1.58	1.56	1.55	1.58	1.59	1.68	1.68	1.53	1.56	1.54
Manufacturing.....	1.90	1.90	1.81	1.73	1.71	1.81	1.87	1.98	1.99	1.74	1.78	1.72
Retail trade.....	1.39	1.39	1.38	1.42	1.44	1.42	1.40	1.48	1.41	1.39	1.47	1.46
Merchant wholesalers.....	1.39	1.34	1.34	1.36	1.34	1.30	1.29	1.37	1.44	1.30	1.26	1.31

<sup>1</sup> Book value; seasonally adjusted end-of-year data. See text, section 17.

<sup>2</sup> Average inventories to average sales. Average inventories based on weighted averages of end-of-month figures.

<sup>3</sup> Average monthly sales for fourth quarter.

<sup>4</sup> End of fourth quarter inventories to average monthly sales for fourth quarter.

Source: Current dollars from U.S. Bureau of the Census, *Current Business Reports*, "Manufacturing and Trade Inventories and Sales" March 1985 and unpublished data; constant dollars from U.S. Bureau of Economic Analysis, 1970 and 1975 unpublished data; 1976-82, *Survey of Current Business*, February 1986; and 1983-85, *Survey of Current Business*, September 1986.

## NO. 883. MANUFACTURING CORPORATIONS, ASSETS, AND PROFITS, BY ASSET SIZE: 1970 TO 1985

[Corporations and assets as of end of 4th quarter; profit for entire year. Through 1979, corporations under \$10 million based on sample; \$10 million and over based on complete canvass, thereafter, under \$25 million based on sample and \$25 million and over based on complete canvass. For details regarding methodology, see source for fourth quarter, 1981]

YEAR AND ITEM	Unit	Total	ASSET-SIZE CLASS						
			Under \$10 mil.	\$10-\$25 mil.	\$25-\$50 mil.	\$50-\$100 mil.	\$100-\$250 mil.	\$250 mil.-\$1 bil.	\$1 bil. and over
Corporations:									
1970 <sup>1</sup>	Number	197,807	<sup>2</sup> 195,000	1,202	533	366	289	218	102
1975	Number	(NA)	(NA)	1,750	705	450	392	276	151
1976	Number	(NA)	(NA)	1,705	757	472	400	301	162
1977	Number	(NA)	(NA)	1,793	809	501	409	327	174
1978	Number	(NA)	(NA)	1,780	802	518	408	320	181
1979	Number	(NA)	(NA)	1,918	979	571	470	341	225
1980	Number	(NA)	(NA)	1,777	941	590	491	369	244
1981	Number	(NA)	(NA)	(NA)	845	603	520	376	259
1982	Number	(NA)	(NA)	(NA)	820	642	510	378	275
1983	Number	(NA)	(NA)	872	863	683	559	403	275
1984	Number	(NA)	(NA)	799	872	703	601	420	287
1985	Number	(NA)	(NA)	863	896	744	608	428	281
Assets:									
1970	Mil. dol	578,234	69,101	20,471	20,138	25,846	47,783	112,475	282,320
1975	Mil. dol	810,910	98,147	31,307	24,720	31,395	62,524	139,113	423,705
1976	Mil. dol	883,860	98,355	32,244	26,538	32,970	62,633	149,412	481,709
1977	Mil. dol	982,998	102,241	35,603	28,595	35,032	83,590	160,107	537,830
1978	Mil. dol	1,086,433	114,008	38,358	30,813	37,429	66,907	164,958	639,983
1979	Mil. dol	1,242,985	124,853	42,007	34,082	40,336	73,172	169,599	758,937
1980	Mil. dol	1,384,474	126,639	43,569	34,930	41,963	75,284	179,959	882,129
1981	Mil. dol	1,580,353	136,915	57,453	39,756	43,924	82,284	188,913	1,011,105
1982	Mil. dol	1,614,018	141,363	55,327	38,333	48,013	78,766	180,047	1,072,169
1983	Mil. dol	1,704,951	149,791	54,506	41,766	52,673	87,391	194,212	1,124,612
1984	Mil. dol	1,853,457	156,671	59,549	49,419	53,517	94,315	206,698	1,233,288
1985	Mil. dol	1,932,766	153,883	64,324	52,869	58,019	96,748	208,403	1,298,720
Net profit: <sup>3</sup>									
1970	Mil. dol	28,572	2,812	811	836	1,101	2,315	5,862	14,832
1975	Mil. dol	49,135	6,212	1,831	1,327	1,676	3,553	8,165	26,370
1976	Mil. dol	64,519	7,799	2,238	1,714	2,070	3,945	10,422	36,330
1977	Mil. dol	70,366	8,683	2,189	1,867	2,252	4,401	11,206	39,769
1978	Mil. dol	81,185	9,417	2,487	2,264	2,602	4,712	12,311	47,391
1979	Mil. dol	98,698	10,119	2,720	2,347	2,898	5,347	13,412	61,854
1980	Mil. dol	92,443	7,770	2,235	1,904	2,479	4,532	11,485	62,041
1981	Mil. dol	101,302	8,863	3,077	1,944	2,415	4,580	10,087	70,354
1982	Mil. dol	71,028	5,193	2,278	1,196	1,421	2,643	6,892	51,405
1983	Mil. dol	85,834	7,438	2,893	2,149	2,466	3,861	6,134	60,893
1984	Mil. dol	107,648	10,037	3,417	2,527	2,877	4,864	9,278	74,648
1985	Mil. dol	87,647	8,601	2,551	2,305	2,819	3,628	7,312	60,431

NA Not available. <sup>1</sup> Source: U.S. Securities and Exchange Commission. <sup>2</sup> Data derived from U.S. Internal Revenue Service, *Statistics of Income*, annual. <sup>3</sup> After taxes.

Source: Except as noted, through 1981, U.S. Federal Trade Commission; thereafter, U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*.

## NO. 884. LARGEST INDUSTRIAL CORPORATIONS—SALES, ASSETS, NET INCOME, AND EMPLOYEES, BY SALES GROUP RANK: 1983 TO 1985

[Sales, assets, and net income in billions of dollars; employees in thousands, except percent. Excludes large privately owned companies that do not publish sales. Includes service and rental revenues, but companies must derive more than 50 percent of revenues from manufacturing or mining for years ending not later than Dec. 31 of year stated, sales exclude excise taxes collected by manufacturer and include discontinued operations]

RANK BY SALES GROUP	SALES			ASSETS <sup>1</sup>			NET INCOME <sup>2</sup>			EMPLOYEES <sup>3</sup>		
	1983	1984	1985	1983	1984	1985	1983	1984	1985	1983	1984	1985
<b>500 largest.....</b>	<b>1,686.7</b>	<b>1,758.7</b>	<b>1,807.1</b>	<b>1,353.9</b>	<b>1,409.4</b>	<b>1,519.4</b>	<b>68.8</b>	<b>86.9</b>	<b>69.6</b>	<b>14,053</b>	<b>14,195</b>	<b>14,065</b>
Top 100.....	1,161.1	1,223.0	1,264.1	913.6	985.5	1,068.6	63.0	83.0	53.5	8,313	8,792	8,789
101-200.....	262.9	282.5	265.5	227.0	210.7	224.8	7.1	12.4	7.0	2,767	2,488	2,465
201-300.....	132.9	139.8	140.7	109.9	110.1	114.0	5.0	6.1	4.9	1,397	1,449	1,390
301-400.....	78.6	81.1	83.6	65.6	65.3	72.9	2.4	3.2	2.5	967	892	886
401-500.....	51.2	52.3	53.2	37.8	37.8	39.9	1.8	2.2	1.7	608	573	525
<b>Percent of total:</b>												
Top 100.....	68.8	69.5	69.9	67.5	69.9	70.3	76.5	72.4	76.9	59.2	61.9	62.5
101-200.....	15.6	14.9	14.7	16.8	14.9	14.8	10.3	14.2	10.1	19.7	17.5	17.5
201-300.....	7.9	7.9	7.8	8.1	7.8	7.5	7.2	6.9	7.0	9.9	10.2	9.8
301-400.....	4.7	4.6	4.6	4.8	4.6	4.8	3.5	3.6	3.6	6.9	6.3	6.3
401-500.....	3.0	3.0	2.9	2.8	2.6	2.5	2.6	2.4	2.4	4.3	4.0	3.8

<sup>1</sup> Total assets employed in business at end of fiscal year, less depreciation and depletion. <sup>2</sup> After taxes, special charges, and credits. <sup>3</sup> As of year end, or yearly average.

Source: Time, Inc., New York, NY, *The Fortune Directories*. (Copyright.)

# **No. 885. 500 LARGEST INDUSTRIAL CORPORATIONS—SELECTED FINANCIAL ITEMS, BY INDUSTRY:** 1984 AND 1985

[Data are medians and are ranked based on sales per employee for latest year shown. See headnote, table 884. Minus sign (—) indicates decrease. For definition of median, see Guide to Tabular Presentation]

INDUSTRY	SALES PER EMPLOYEE (\$1,000)		CHANGES IN PROFITS (percent)		SALES PER DOLLAR OF STOCKHOLD- ER'S EQUITY (dol.)		RETURN ON STOCKHOLD- ER'S EQUITY (percent)		RETURN ON SALES (percent)		TOTAL RETURN TO INVESTORS <sup>1</sup> (percent)	
	1984	1985	1984	1985	1984	1985	1984	1985	1984	1985	1984	1985
<b>Total.....</b>	<b>100.6</b>	<b>106.0</b>	<b>24.9</b>	<b>-4.1</b>	<b>2.78</b>	<b>2.80</b>	<b>13.6</b>	<b>11.6</b>	<b>4.5</b>	<b>3.9</b>	<b>-8</b>	<b>26.3</b>
Petroleum refining.....	391.0	486.3	2.5	-10.5	3.15	3.49	9.5	9.9	4.0	2.7	2.7	26.2
Mining, crude-oil production.....	181.6	241.0	1.1	-19.8	1.74	1.86	13.8	11.0	6.3	4.8	-8.4	10.7
Beverages.....	143.8	155.4	-3.6	13.3	2.99	2.73	15.7	17.5	6.0	6.4	16.4	43.6
Food.....	146.4	155.2	10.0	4.6	5.15	5.73	16.2	15.0	2.9	3.0	16.3	54.4
Chemicals.....	128.1	124.1	23.1	-11.3	2.58	2.45	12.2	8.3	4.3	3.4	1.6	23.5
Soaps, cosmetics.....	114.7	123.6	1.2	-14.0	2.72	3.19	17.4	12.1	5.8	3.8	5.7	43.3
Metal manufacturing.....	123.2	128.7	76.4	-26.7	2.84	2.70	7.1	5.0	3.0	1.9	-21.7	8.0
Paper, fiber, wood products.....	129.5	131.1	36.4	-5.6	2.60	2.38	12.4	8.3	4.8	3.8	12.4	24.6
Rubber, plastic products.....	100.6	99.9	31.5	-17.6	3.21	3.21	12.1	9.3	3.3	2.4	12.1	27.2
Glass, concrete, abrasives, gypsum.....	112.5	115.1	65.0	14.9	2.44	2.50	9.5	10.0	4.0	4.0	9.5	26.2
Pharmaceuticals.....	93.9	100.7	7.7	9.1	1.93	1.72	18.1	15.6	10.0	10.4	18.1	48.1
Publishing, printing.....	92.2	104.0	17.9	11.4	2.18	2.28	18.4	18.7	8.4	8.1	18.4	39.4
Shipbuilding, railroad and transportation equipment <sup>2</sup> .....	99.0	111.7	14.9	-25.6	5.28	4.23	14.3	13.2	3.3	4.0	14.3	-6.1
Motor vehicles.....	95.6	97.5	60.3	-13.6	3.46	3.56	15.4	13.7	5.2	4.4	15.4	13.7
Metal products.....	97.4	87.5	28.5	4	2.96	2.80	11.7	12.7	4.3	4.6	11.7	31.0
Industrial and farm equipment.....	82.4	86.8	83.4	-13.2	2.46	2.52	11.8	5.8	3.9	2.3	11.8	13.3
Musical instruments, toys, sporting goods.....	77.2	135.4	156.1	60.8	3.00	5.33	14.2	31.7	5.4	7.8	14.2	25.7
Aerospace.....	86.1	88.2	28.0	6.3	3.70	3.85	13.9	13.1	4.3	4.2	13.9	24.7
Measuring, scientific, photo. equip.....	71.8	77.2	16.8	11.2	2.00	2.02	14.0	13.1	5.6	5.1	14.0	19.3
Electronics, appliances.....	72.3	72.7	22.6	-4.1	2.44	2.63	14.5	10.1	5.7	4.2	14.5	17.4
Office equipment (incl. computers).....	73.9	86.8	24.4	-6.2	1.96	2.01	12.8	11.0	6.6	4.3	12.6	14.1
Textiles, vinyl flooring.....	62.8	62.3	16.2	-19.9	3.33	3.42	8.2	5.6	3.8	1.8	8.2	34.6
Apparel.....	52.8	54.7	10.7	2.2	3.71	3.42	13.9	12.0	3.5	2.7	13.9	48.8

- Represents zero.

<sup>1</sup> Includes both price appreciation and dividend yield, i.e., to an investor in the company's stock. <sup>2</sup> Excludes motor vehicles and aircraft.

Source: Time, Inc., New York, NY, *The Fortune Directories*. (Copyright.)

## **No. 886. CORPORATE FUNDS—SOURCES AND USES: 1970 TO 1985**

[In billions of dollars, except percent. Covers nonfarm nonfinancial corporate business. See text, section 17]

SOURCE AND USE	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
<b>Sources, total.....</b>	<b>103.3</b>	<b>162.0</b>	<b>324.5</b>	<b>354.0</b>	<b>348.6</b>	<b>380.8</b>	<b>329.4</b>	<b>435.1</b>	<b>511.3</b>	<b>473.5</b>
Internal.....	62.8	124.8	182.3	197.6	200.1	239.5	242.3	288.1	338.1	370.4
Domestic undistributed profits.....	7.6	36.4	66.9	71.5	53.7	50.2	11.6	19.0	31.9	20.2
IVA and CCA.....	-1.6	-17.9	-36.6	-57.2	-59.2	-38.0	-18.8	7.7	33.2	67.1
Capital consumption allowances.....	49.9	91.9	128.8	149.6	171.3	198.8	221.4	230.5	240.9	252.1
Foreign earnings <sup>2</sup> .....	6.9	14.4	22.2	33.7	34.4	26.5	28.0	30.8	32.2	31.1
External <sup>3</sup> .....	40.6	37.2	142.2	156.5	148.5	141.3	87.1	147.0	173.1	103.1
Percent of total.....	39.3	23.0	43.8	44.2	42.6	37.1	26.4	33.8	33.9	21.8
Credit market funds.....	35.3	30.7	81.0	88.2	93.0	92.2	83.5	84.7	115.4	75.3
Securities and mortgages.....	26.3	38.5	33.3	21.0	52.1	21.8	44.0	57.3	-11.2	11.7
Equity issues.....	5.7	9.9	-1	-7.8	12.9	-11.5	11.4	28.3	-77.0	-81.6
Bonds and mortgages <sup>4</sup> .....	20.6	28.6	33.4	28.8	39.3	33.2	32.6	29.0	65.8	93.3
Loans and short-term paper.....	9.0	-7.9	47.7	67.3	40.9	70.4	39.5	27.4	126.5	63.6
Other.....	5.3	6.5	61.3	68.2	55.5	48.2	3.9	62.3	8.8	27.8
Profit taxes payable.....	-3.7	-2.4	4.3	2.5	-1.7	-6.8	-14.1	5.8	7	-8.4
Trade debt.....	7.5	6.3	49.1	53.8	40.4	30.8	3.8	44.6	34.6	16.3
Foreign direct investments in U.S.....	1.5	2.6	7.9	11.9	16.9	25.2	13.8	11.9	22.5	19.9
<b>Uses, total.....</b>	<b>98.0</b>	<b>153.4</b>	<b>309.0</b>	<b>362.5</b>	<b>341.6</b>	<b>349.6</b>	<b>283.6</b>	<b>395.1</b>	<b>467.6</b>	<b>430.9</b>
Capital expenditures.....	79.3	112.2	216.9	238.3	244.1	286.3	256.3	271.4	376.3	367.2
Increase in financial assets.....	18.7	41.2	92.0	124.3	97.5	63.3	27.3	123.8	81.4	63.7
Discrepancy (sources less uses).....	5.3	8.6	15.5	-8.5	7.0	31.2	45.8	40.0	53.6	42.6

<sup>1</sup> Inventory valuation and capital consumption adjustment.

<sup>2</sup> Foreign branch profits, dividends, and subsidiaries earnings retained abroad. <sup>3</sup> Net increases in liability. <sup>4</sup> Includes industrial pollution control revenue bonds, issued by State and local governments.

Source: Board of Governors of the Federal Reserve System. Data derived from *Flow of Funds Accounts*, annual.

## NO. 887. CORPORATE PROFITS, TAXES, AND DIVIDENDS: 1970 TO 1985

[In billions of dollars. Covers corporations organized for profit. Represents profits to U.S. residents, without deduction of depletion charges and exclusive of capital gains and losses; intercorporate dividends from profits of domestic corporations are eliminated; net receipts of dividends, reinvested earnings of incorporated foreign affiliates, and earnings of unincorporated foreign affiliates are added]

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985
Profits before taxes .....	76.0	134.8	200.4	233.5	257.2	237.1	226.5	169.6	207.6	235.7	223.2
Less: Income tax liability <sup>1</sup> .....	34.4	50.9	73.0	83.5	88.0	84.8	81.1	63.1	77.2	95.4	91.8
Equals: Profits after taxes .....	41.7	83.9	127.4	150.0	169.2	152.3	145.4	106.5	130.4	140.3	131.4
Less: Net dividends <sup>2</sup> .....	22.5	29.6	39.5	44.7	50.1	54.7	63.6	66.9	71.5	78.5	81.6
Equals: Undistributed profits .....	19.2	54.3	87.9	105.2	119.1	97.6	81.8	39.6	58.9	62.0	49.8
Capital consumption allowances <sup>3</sup> .....	57.2	90.2	111.5	128.3	144.3	164.6	196.3	225.7	259.7	288.5	326.2
Profits after tax plus capital consumption allowances <sup>3</sup> .....	96.9	174.1	238.9	276.3	313.5	316.9	341.7	332.2	290.1	428.7	457.6

<sup>1</sup> Federal, State and local. <sup>2</sup> Disbursements to U.S. residents, measured after eliminations of intercorporate dividends.

<sup>3</sup> Without capital consumption adjustment. Includes depreciation and accidental damages.

## NO. 888. CORPORATE PROFITS—FINANCIAL AND NONFINANCIAL INDUSTRIES: 1970 TO 1985

[In billions of dollars. Minus sign (-) indicates loss]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>Corporate profits with IVA <sup>1</sup> and CCA <sup>2</sup> ..</b>	<b>74.7</b>	<b>101.7</b>	<b>117.6</b>	<b>145.2</b>	<b>174.8</b>	<b>197.2</b>	<b>200.1</b>	<b>177.2</b>	<b>186.0</b>	<b>150.0</b>	<b>213.7</b>	<b>264.7</b>	<b>280.7</b>
Domestic industries .....	67.8	84.7	103.2	129.2	156.5	175.0	166.4	142.8	159.4	121.9	183.6	233.7	248.8
Financial .....	12.3	15.3	11.6	15.9	21.6	29.1	27.3	19.7	15.2	10.1	18.0	17.0	24.6
Nonfinancial .....	55.4	69.4	91.6	113.3	134.9	146.0	139.1	123.1	144.2	111.9	165.6	216.7	224.2
Rest of the world .....	6.9	17.0	14.4	16.0	18.3	22.2	33.7	34.4	28.5	28.0	30.2	31.0	31.8
<b>Corporate profits with IVA <sup>1</sup> ..</b>	<b>69.5</b>	<b>99.4</b>	<b>123.9</b>	<b>155.3</b>	<b>193.8</b>	<b>208.2</b>	<b>214.1</b>	<b>194.0</b>	<b>202.3</b>	<b>159.2</b>	<b>196.7</b>	<b>230.2</b>	<b>222.6</b>
Domestic industries .....	62.6	82.4	109.5	139.3	165.5	186.0	180.4	159.6	173.8	131.2	166.8	199.2	190.8
Financial .....	12.2	14.7	11.2	15.9	21.6	29.1	27.8	21.0	16.5	11.8	18.1	15.4	21.0
Federal Reserve banks .....	3.6	5.7	5.7	6.0	8.2	7.7	9.6	11.9	14.5	15.4	14.8	16.7	16.8
Other .....	8.6	8.9	5.5	9.9	15.4	21.4	18.2	9.0	1.9	-3.6	3.3	-1.3	4.3
Nonfinancial .....	50.4	67.8	98.3	123.4	143.9	156.8	152.6	136.6	157.3	119.4	148.5	183.8	169.7
Manufacturing .....	26.7	39.8	53.6	70.9	80.6	88.7	87.5	77.1	88.5	58.0	70.1	87.4	73.0
Durable goods <sup>3</sup> .....	10.2	14.6	19.8	31.3	38.6	44.6	37.3	21.3	21.0	2.1	17.2	34.8	28.0
Primary metal industries .....	.8	4.9	2.7	2.0	1.3	3.5	3.6	2.5	3.1	-4.9	-4.9	-2.6	-3.6
Fabricated metal products .....	1.1	1.6	3.1	3.9	4.4	4.9	5.2	4.3	4.4	2.4	3.0	4.6	4.1
Machinery, except electrical .....	3.0	3.1	4.8	6.7	8.9	9.6	9.1	7.7	8.6	4.1	3.1	4.7	3.6
Electrical and electronic equipment .....	1.2	.3	2.4	3.7	5.8	6.7	5.2	4.7	4.1	1.7	3.7	5.2	4.9
Motor vehicles and equipment .....	1.2	.7	2.0	7.2	9.4	8.9	4.7	-2.5	-1.1	-8.8	5.1	9.9	6.8
Nondurable goods <sup>3</sup> .....	16.5	25.2	33.8	39.6	42.0	44.0	50.2	55.8	67.5	55.9	53.0	52.6	45.0
Food and kindred products .....	3.2	2.5	8.8	7.1	6.9	6.2	5.8	6.1	6.7	7.0	7.2	8.0	7.8
Chemicals and allied products .....	3.9	5.1	6.4	8.2	7.8	8.2	7.2	5.4	8.2	5.2	6.7	7.5	4.7
Petroleum and coal products .....	3.5	10.7	9.5	13.1	12.9	14.7	22.5	31.4	36.5	29.1	21.4	17.3	13.4
Transportation and public utilities .....	8.2	6.7	10.3	14.8	17.9	20.9	15.2	17.6	19.5	19.3	28.5	32.6	33.0
Wholesale and retail trade .....	9.6	12.9	22.2	23.0	27.5	27.3	28.7	21.6	32.5	34.6	38.9	49.7	49.7
Other .....	5.9	8.3	12.2	14.7	17.8	20.0	21.1	22.4	16.8	7.5	10.9	14.1	14.0

<sup>1</sup> Inventory valuation adjustments. <sup>2</sup> Capital consumption adjustment. <sup>3</sup> Includes other industries not shown separately.

## NO. 889. CORPORATE PROFITS, BY INDUSTRY: 1980 TO 1985

[In billions of dollars. Profits are without inventory valuation and capital consumption adjustments. Minus sign (-) indicates loss. See headnote, table 887]

INDUSTRY	BEFORE TAXES						AFTER TAXES					
	1980	1981	1982	1983	1984	1985	1980	1981	1982	1983	1984	1985
<b>Domestic industries, total .....</b>	<b>202.7</b>	<b>198.0</b>	<b>141.5</b>	<b>177.5</b>	<b>204.7</b>	<b>191.3</b>	<b>117.9</b>	<b>116.8</b>	<b>78.5</b>	<b>100.2</b>	<b>109.2</b>	<b>99.5</b>
Agriculture <sup>1</sup> .....	.6	.3	-1	-2	-4	-2	.2	(2)	-2	-4	-7	-5
Mining .....	6.5	2.7	-2.1	-1.8	-4	-1.0	4.7	1.0	-2.7	-2.1	-1.2	-1.0
Construction .....	6.5	4.5	3.1	3.4	3.3	2.5	4.4	2.5	1.8	2.1	2.3	2.1
Manufacturing .....	96.3	100.2	62.5	74.1	90.6	73.4	57.1	63.5	37.1	42.6	49.7	38.7
Transportation .....	3.7	2.2	.1	4.5	7.9	7.4	2.1	.6	-3.9	2.7	5.3	4.9
Communications .....	7.5	8.2	7.9	9.1	9.1	9.6	5.6	6.3	6.4	7.2	6.8	7.5
Public utilities .....	9.7	11.7	12.9	14.6	15.6	15.3	7.1	8.9	10.3	10.6	10.8	10.7
Wholesale and retail trade .....	39.0	39.8	37.7	45.0	51.2	50.4	26.8	28.0	27.6	31.8	36.2	34.9
Finance, insurance <sup>2</sup> .....	22.9	16.9	9.2	17.4	15.6	21.4	3.1	-2.2	-8.7	-2.4	-8.2	-6.6
Services .....	9.9	11.6	10.3	11.5	12.2	12.6	6.9	8.3	7.9	8.2	8.4	8.8
Rest of world <sup>3</sup> .....	34.4	28.5	28.0	30.2	31.0	31.8	34.4	28.5	28.0	30.2	31.0	31.8

<sup>1</sup> Less than \$50 million. <sup>2</sup> Includes forestry and fisheries. <sup>3</sup> Includes real estate. <sup>4</sup> Consists of receipts by all U.S. residents, including both corporations and persons, of earnings of unincorporated foreign affiliates, dividends from their incorporated foreign affiliates, and their share of reinvested earnings of their incorporated foreign affiliates, net of corresponding outflows.

Source of tables 887-889: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

# NO. 890. MANUFACTURING CORPORATIONS—SALES, PROFITS, STOCKHOLDERS' EQUITY, AND DEBT: 1960 TO 1985

[In billions of dollars. Prior to 1970, excludes newspapers. Data are not necessarily comparable from year to year due to changes in accounting procedures, industry classifications, sampling procedures, etc.; for detail, see source. See also *Historical Statistics, Colonial Times to 1970*, series P 93-106]

YEAR	ALL MANUFACTURING CORPS.					DURABLE GOODS INDUSTRIES					NONDURABLE GOODS INDUSTRIES				
	Sales (net)	Profits		Stockholders' equity <sup>1</sup>	Debt <sup>1</sup>	Sales (net)	Profits		Stockholders' equity <sup>1</sup>	Debt <sup>1</sup>	Sales (net)	Profits		Stockholders' equity <sup>1</sup>	Debt <sup>1</sup>
		Before taxes	After taxes				Before taxes	After taxes				Before taxes	After taxes		
1960.....	346	28	15	165	41	174	14	7	82	21	172	14	8	83	20
1965.....	492	47	28	212	58	257	26	15	105	28	235	20	13	106	30
1970.....	709	48	29	307	134	363	23	13	155	71	346	25	16	152	63
1972.....	850	63	37	343	149	436	34	18	171	77	414	30	18	172	72
1973.....	1,017	81	48	374	164	527	44	25	189	86	490	38	23	185	78
1974.....	1,061	92	59	395	167	529	41	25	196	87	532	51	34	199	80
1975.....	1,065	80	49	423	183	521	35	21	208	94	544	45	28	215	89
1976.....	1,203	105	65	463	188	590	51	31	224	91	614	54	34	238	97
1977.....	1,328	115	70	497	200	657	58	35	240	95	671	57	36	257	106
1978.....	1,496	133	81	541	222	761	70	42	263	106	736	63	39	278	117
1979.....	1,742	154	99	600	252	866	72	45	292	123	876	82	54	308	129
1980.....	1,897	145	92	665	292	883	57	36	316	143	1,014	88	57	349	149
1981.....	2,145	159	101	743	335	979	67	42	350	159	1,165	91	60	393	176
1982.....	2,039	108	71	770	371	913	35	22	356	177	1,126	74	49	415	193
1983.....	2,114	133	86	813	368	973	49	30	372	188	1,141	84	56	440	200
1984.....	2,335	166	108	864	405	1,108	76	49	396	166	1,228	90	59	469	239
1985.....	2,331	137	88	866	454	1,143	61	39	421	187	1,189	76	49	445	267

<sup>1</sup> Annual data are average equity or debt for the year (using four end-of-quarter figures).

Source: Through 1981, U.S. Federal Trade Commission, thereafter, U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*. In U.S. Council of Economic Advisers, *Economic Report of the President*, annual.

## NO. 891. CORPORATE PROFITS, STOCKHOLDERS' EQUITY, SALES, AND DEBT RATIOS, BY INDUSTRY GROUP: 1980 TO 1985

[Averages of quarterly figures at annual rates. Based on sample; see source for discussion of methodology. Minus sign (—) indicates loss. See headnote, table 890]

INDUSTRY GROUP	RATIO OF PROFITS TO STOCKHOLDERS' EQUITY (percent)				PROFITS PER DOLLAR OF SALES (cents)				RATIO OF STOCKHOLDERS' EQUITY TO DEBT			
	1980	1983	1984	1985	1980	1983	1984	1985	1980	1983	1984	1985
All manufacturing corporations <sup>1</sup> .....	13.9	10.5	12.5	10.1	4.9	4.1	4.6	3.8	2.3	2.2	2.1	1.9
Durable goods industries.....	11.2	8.0	12.4	9.2	4.0	3.1	4.4	3.4	2.2	2.1	2.4	2.2
Stone, clay, and glass products.....	10.8	5.3	9.4	7.9	4.2	2.2	3.6	3.1	1.9	1.7	1.7	1.7
Primary metal industries.....	11.7	—10.5	—1.5	—7.9	4.1	—4.0	—6	—2.6	1.7	1.2	1.2	1.2
Iron and steel.....	9.0	—17.8	—2.7	—11.0	2.9	—5.9	—8	—2.6	1.7	1.0	1.0	.8
Nonferrous metals.....	15.6	—1.6	—	—5.7	5.8	—8	—3	—2.5	1.8	1.5	1.5	1.6
Fabricated metal products.....	13.9	8.1	12.9	9.2	4.2	2.6	3.9	2.8	2.1	1.9	1.8	1.6
Machinery, exc. electrical.....	15.0	7.9	11.8	9.3	6.5	4.3	5.8	4.7	2.2	2.7	2.8	2.6
Electrical and electronic equipment.....	15.1	9.9	11.7	8.3	5.0	3.9	4.4	3.4	2.6	2.8	2.9	2.7
Transportation equipment.....	—6	15.7	20.4	15.4	—3	4.2	5.2	4.1	2.7	2.7	3.3	2.9
Motor vehicles and equipment.....	—9.3	19.7	24.8	18.2	—3.4	5.0	6.1	4.9	3.4	3.5	4.0	4.2
Aircraft, guided missiles and parts.....	16.0	12.1	14.1	11.1	4.3	3.5	4.1	3.1	2.8	3.2	3.7	2.6
Instruments and related products.....	17.5	11.9	12.5	10.1	9.3	6.9	7.0	5.7	4.3	4.8	4.1	3.5
Nondurable goods industries.....	16.4	12.7	12.6	11.0	5.6	4.9	4.8	4.1	2.3	2.2	2.0	1.7
Food and kindred products.....	14.7	12.2	13.3	15.3	3.4	3.7	3.3	3.1	1.9	1.8	1.5	1.4
Tobacco manufactures.....	19.8	18.5	20.4	(*)	11.7	12.2	12.0	(*)	1.8	2.2	2.3	(*)
Textile mill products.....	8.5	12.0	11.2	8.6	2.2	3.7	3.2	2.4	2.0	2.0	1.8	1.5
Paper and allied products.....	12.1	8.6	10.7	9.7	5.1	3.9	4.2	4.0	2.0	1.8	1.7	1.7
Printing and publishing.....	16.4	17.5	18.2	19.2	5.5	6.9	6.0	6.5	2.1	2.1	2.0	1.7
Chemicals and allied products.....	15.4	12.2	14.0	9.4	7.1	6.0	6.6	4.7	2.2	2.2	2.3	2.1
Industrial.....	11.9	7.9	11.6	4.2	5.4	3.7	5.4	2.2	1.9	1.9	2.1	1.8
Drugs.....	19.9	20.4	20.2	15.2	13.2	13.7	13.3	9.8	3.0	2.8	3.0	3.2
Petroleum and coal products.....	20.0	12.6	10.0	8.5	7.7	6.2	5.1	4.0	3.4	2.7	2.0	1.6
Rubber and misc. plastics products.....	6.7	12.3	13.6	9.5	2.0	3.7	3.8	2.6	1.6	2.1	2.0	1.6
Mining corporations, total <sup>2</sup> .....	19.2	3.3	4.0	—4.0	11.3	2.7	3.0	3.2	1.3	1.0	1.0	1.0
Retail trade corporations, total <sup>2</sup> .....	13.2	15.4	14.6	12.6	1.7	2.7	2.8	2.2	1.2	1.7	1.5	1.4
Wholesale trade corporations, total <sup>2</sup> .....	17.3	7.5	9.9	8.7	1.8	.8	1.2	1.0	1.2	1.0	1.0	1.0

<sup>1</sup> Includes other industries not shown separately.

<sup>2</sup> Beginning 1985, tobacco included in food and kindred products.

<sup>3</sup> Beginning 1983, represents results of companies with assets over \$25 million.

Source: 1980, U.S. Federal Trade Commission, thereafter, U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*. In U.S. Council of Economic Advisers, *Economic Report of the President*, annual.

**No. 892. U.S. LARGEST PUBLIC COMPANIES—RETURN ON EQUITY, DEBT EQUITY RATIO, SALES, AND EARNINGS PER SHARE—BY INDUSTRY: 1981 TO 1985**

[For year ending in September. Included in the Forbes Universe of 1,000 companies is every firm with revenue of over \$450 million in 1985. Represents industry medians: calculated by listing companies in rank order and selecting the midpoint. Where there is an even number of companies, an arithmetic average of the two middle companies is substituted]

INDUSTRY	PROFITABILITY					GROWTH					
	Return on equity <sup>1</sup>			1985		Sales <sup>4</sup>		Earnings per share			
	5-year rank	1981-85 average (per-cent)	1985 (per-cent)	Debt/equity ratio <sup>2</sup>	Net profit margin <sup>3</sup> (per-cent)	5-year rank	1981-85 average (per-cent)	1985 (per-cent)	5-year rank	1981-85 average (per-cent)	1985 (per-cent)
<b>All-Industry medians ..</b>	(x)	<b>13.7</b>	<b>12.7</b>	<b>36.6</b>	<b>3.8</b>	(x)	<b>6.9</b>	<b>4.3</b>	(x)	<b>.3</b>	<b>-6.0</b>
Beverages and tobacco .....	1	21.5	18.5	29.2	6.6	14	7.8	7.0	2	12.3	2.7
Health .....	2	18.9	16.7	29.0	7.7	13	8.3	6.2	5	9.3	9.2
Communications media .....	3	18.4	18.9	23.2	7.3	3	12.5	11.1	1	13.0	7.2
Financial services .....	4	17.0	10.5	74.6	2.1	8	10.8	10.3	24	-7.1	15.0
Electrical equipment .....	5	16.4	15.9	11.7	5.8	21	5.6	5.8	11	6.0	6.0
Aerospace and defense .....	6	16.0	13.5	26.0	4.0	16	5.9	5.7	16	.3	3.8
Food distributors .....	7	15.9	14.8	63.1	1.3	10	9.4	8.3	6	9.0	13.2
Food processors .....	8	15.8	14.2	36.5	3.0	15	7.1	6.8	13	4.3	6.6
Industrial, office services .....	8	15.8	17.6	28.4	4.9	12	8.5	9.8	6	9.0	10.9
Telecommunications .....	8	15.8	13.7	69.3	9.1	2	12.7	4.9	12	5.6	-5.7
Retailing .....	11	15.6	14.2	43.2	2.6	7	11.2	7.7	3	11.0	.3
Banks and thrifts .....	12	14.7	15.4	33.3	6.6	1	16.3	10.5	9	6.4	16.4
Oil .....	12	14.7	4.8	47.3	1.8	23	5.5	-3.3	27	-16.2	-42.7
Computers and electronics .....	14	14.3	8.5	22.7	2.9	5	11.9	4.3	17	-1.0	-26.3
Natural gas .....	15	14.2	12.7	78.8	5.4	4	12.0	-3.7	9	6.4	-12.3
Electric utilities .....	16	13.7	14.6	92.8	12.1	6	11.7	2.0	8	7.8	-2.6
Leisure and recreation .....	17	13.4	11.5	90.8	4.6	17	6.3	2.1	25	-8.0	5.6
Consumer products .....	18	13.1	14.1	28.5	4.8	21	5.6	3.4	14	1.5	-2.6
Insurance .....	19	12.9	10.0	12.6	3.8	11	8.8	13.6	20	-3.5	3.3
Chemicals .....	20	12.8	10.5	34.5	3.9	29	2.9	-1.6	22	-4.4	-20.3
Diversified companies .....	21	12.7	10.8	44.2	3.3	28	3.5	.5	23	-5.1	-7.1
Surface transportation .....	22	12.5	10.9	51.3	3.6	26	4.3	6.4	21	-3.9	-6.3
Paper .....	23	11.9	9.8	54.7	3.7	20	5.9	2.9	18	-1.7	-22.5
Packaging .....	24	11.3	11.0	39.5	4.0	19	6.1	1.6	19	-2.8	-4.8
Construction .....	25	11.2	10.8	31.7	3.1	27	3.7	3.1	26	-8.4	-7.6
Apparel, shoes, textiles .....	26	10.9	6.2	36.6	2.1	25	4.8	-6.1	4	10.6	-49.1
Automotive .....	27	9.6	13.6	26.0	4.0	24	4.9	1.6	15	.7	-11.4
Heavy equipment .....	28	8.9	8.2	29.3	2.9	30	-4	3.1	28	-19.6	-13.6
Air transport .....	29	4.2	12.8	131.3	2.7	9	10.2	8.7	29	(NS)	-26.3
Metals .....	30	3.1	.6	54.9	.4	31	-2.7	-5.4	29	(NS)	(NS)
Coal .....	31	(*)	(*)	45.6	(*)	17	6.3	-5.6	29	(NS)	(NS)

NS Not significant. X Not applicable. <sup>1</sup> Represents net income divided by common shareholders' equity. Common shareholders' equity is total shareholders' equity including the stated value of all preferred stock at the beginning of each year minus the involuntary liquidating value of preferred shares. <sup>2</sup> Long-term debt, including capitalized leases, divided by total equity, including preferred equity. <sup>3</sup> Net income divided by net sales, including other operating income. <sup>4</sup> Net sales plus other operating revenue. \* Deficit.

Source: Forbes, Inc., New York, NY, *Forbes Annual Report on American Industry*. (Copyright.)

**No. 893. FEDERAL GOVERNMENT LOANS TO ALL SMALL BUSINESSES: 1970 TO 1985**

[For fiscal year ending in year shown; see text, section 10. A small business must be independently owned and operated, must not be dominant in its particular industry, and must meet standards set by the Small Business Administration as to its annual receipts or number of employees]

LOANS APPROVED	Unit	1970-1985	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Loans, all businesses .....	1,000 .....	25.2	26.1	31.8	31.7	30.2	31.7	28.7	15.4	19.2	21.3	19.3
Minority-operated businesses .....	1,000 .....	5.6	5.3	6.2	6.1	5.5	6.0	5.2	2.5	2.7	3.1	2.8
Percent of all businesses .....	Percent .....	23	21	19	19	18	19	18	16	14	15	14
Value of total loans .....	Mil. dol .....	2,577	2,071	3,049	3,314	3,407	3,858	3,668	2,038	3,007	3,450	3,217
Loans to minority-operated businesses .....	Mil. dol .....	321	262	352	402	428	470	454	238	295	383	368
Percent of all loans .....	Percent .....	13	13	12	12	13	12	12	12	10	11	11

Source: U.S. Small Business Administration, unpublished data.

### NO. 894. MERGER AND ACQUISITION TRANSACTIONS—NUMBER AND VALUE, BY INDUSTRY: 1980 TO 1984

[Represents transactions for which valuation data are publicly reported]

INDUSTRY CLASSIFICATION OF SELLER	NUMBER OF MERGERS				NOMINAL VALUE (mil. dol.)			
	1981	1982	1983	1984	1981	1982	1983	1984
<b>Total</b> .....	<b>2,395</b>	<b>2,346</b>	<b>2,533</b>	<b>2,543</b>	<b>82,617.6</b>	<b>53,754.5</b>	<b>73,080.5</b>	<b>122,223.7</b>
Oil and gas.....	76	80	111	102	22,921.6	9,165.5	12,075.8	42,951.8
Banking and finance.....	335	426	331	251	4,204.4	5,805.3	13,026.3	5,846.9
Insurance.....	89	81	67	66	7,862.5	5,717.8	2,958.1	3,005.9
Mining and minerals.....	40	31	18	12	10,850.8	355.2	2,946.2	346.7
Food processing.....	69	52	74	55	3,800.0	3,075.2	1,163.6	7,094.8
Conglomerate.....	7	14	13	18	809.4	3,973.6	2,745.1	6,992.9
Transportation.....	31	40	36	36	475.3	1,074.4	5,254.6	1,251.8
Broadcasting.....	47	47	60	83	1,060.1	787.2	3,747.1	1,917.9
Retail.....	87	86	90	130	1,844.4	1,948.1	1,489.0	6,673.2
Brokerage and investment firms.....	46	56	63	86	2,766.5	860.9	1,455.3	1,480.3
Other.....	1,568	1,433	1,670	1,701	26,022.8	21,191.3	25,609.4	44,682.1

Source: W.T. Grimm & Co., *Mergerstat Review*, 1984. (Copyright.)

### NO. 895. GROSS PRODUCT OF U.S. MULTINATIONAL COMPANIES (MNC'S), BY INDUSTRY OF U.S. PARENT: 1977

[In billions of dollars, except percent. Gross product is an economic accounting measure of production. It measures U.S. parent companies' contribution to U.S. gross domestic product (GDP) and their majority-owned foreign affiliate (MOFA's) contribution to foreign GDP. The gross product estimates are based on data from the Bureau of Economic Analysis' 1977 benchmark survey of U.S. direct investment abroad and cover nonbank U.S. parent companies that had at least one nonbank MOFA. (MOFA's are foreign affiliates that were owned by more than 50 percent of all U.S. parents combined and that had assets, sales, or net income of more than \$3 million in 1977.) Detailed data and the methodology of the benchmark survey are published in U.S. Bureau of Economic Analysis, *U.S. Direct Investment Abroad*, 1977, April 1981]

ITEM	U.S. MNC'S WORLDWIDE			PERCENT DISTRIBUTION	
	Total	U.S. parents	MOFA's	U.S. parents	MOFA's
<b>All industries</b> .....	<b>651.7</b>	<b>490.5</b>	<b>161.1</b>	<b>75</b>	<b>25</b>
Mining.....	2.4	2.0	.4	82	18
Petroleum.....	114.1	52.1	62.0	46	54
Manufacturing.....	382.3	301.3	81.0	79	21
Trade.....	35.3	31.3	4.0	89	11
Finance (except banking), insurance, and real estate.....	23.2	22.8	0.4	78	22
Other industries.....	88.4	81.1	7.3	92	8

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, February 1983.

### NO. 896. FOREIGN-OWNED U.S. FIRMS, BY PERCENT OF FOREIGN OWNERSHIP, INDUSTRY, AND COUNTRY: 1982

[Covers only firms operating at more than one U.S. location and having 50 or more employees. A firm was defined as foreign-owned if ten percent or more of its equity was owned by a foreign entity. Domicile country refers to location of the home office of the owning entity]

ITEM	Firms <sup>1</sup>	Estab-lish-ments <sup>1</sup>	Em-ploy-ment <sup>2</sup> (1,000)	Annual payroll (mil. dol.)	DOMICILE COUNTRY	Firms <sup>1</sup>	Estab-lish-ments <sup>1</sup>	Em-ploy-ment <sup>2</sup> (1,000)	Annual payroll (mil. dol.)
<b>Total</b> <sup>3</sup> .....	<b>1,744</b>	<b>48,287</b>	<b>2,377.4</b>	<b>47,876</b>	<b>All countries</b> <sup>3</sup> .....	<b>1,744</b>	<b>48,287</b>	<b>2,377.4</b>	<b>47,876</b>
Foreign ownership:					Australia <sup>4</sup> .....	29	466	27.5	600
10-49 percent.....	246	10,004	567.6	13,002	Bahamas.....	13	238	9.6	122
50-99 percent.....	308	9,304	419.5	8,490	Belgium <sup>5</sup> .....	39	782	48.9	892
100 percent.....	1,159	28,759	1,372.8	26,014	Bermuda.....	15	1,109	40.3	740
Industry:					Canada.....	271	8,166	411.3	9,295
Agriculture.....	58	240	8.5	142	France.....	122	3,158	166.7	3,499
Mining.....	102	981	106.1	3,277	Germany, Fed. ....	173	5,493	314.0	5,758
Construction.....	87	454	48.4	1,347	Rep. of.....	283	11,225	505.7	8,743
Manufacturing.....	864	5,984	1,109.3	24,496	Great Britain.....	20	1,186	20.8	328
Transportation, communication, public utilities.....	221	2,358	83.9	2,072	Hong Kong.....	239	2,249	117.8	2,589
Wholesale trade.....	947	9,536	219.7	5,525	Netherlands.....	132	7,902	354.4	7,783
Retail trade.....	230	18,440	444.0	4,431	Neth. Antilles.....	37	1,335	73.9	1,552
Finance, insurance, real estate.....	375	5,434	183.6	4,183	Panama.....	18	168	13.8	290
Services.....	378	5,060	173.8	2,404	Sweden.....	50	605	41.3	836
					Switzerland.....	131	2,594	143.7	2,792
					Other.....	162	1,611	85.7	1,952

<sup>1</sup> For definition, see text, section 17. <sup>2</sup> For week including March 12. <sup>3</sup> Includes industries and countries not shown separately. <sup>4</sup> Includes New Zealand. <sup>5</sup> Includes Luxembourg.

Source: U.S. Bureau of the Census, *Selected Characteristics of Foreign-Owned U.S. Firms: 1982*.

### NO. 897. CAPITAL EXPENDITURES BY MAJORITY-OWNED FOREIGN AFFILIATES OF U.S. MULTINATIONAL COMPANIES: 1975 TO 1986

[Represents expenditures to acquire, add to, or improve property, plant, and equipment. Data are universe estimates based on Bureau of Economic Analysis' semiannual sample survey. The latest survey, taken in Dec. 1985, covered over 8,500 majority-owned foreign affiliates. See *Survey of Current Business*, March 1986]

INDUSTRY AND AREA OR COUNTRY	EXPENDITURES (bil. dol.)								PERCENT OF TOTAL			
	1975	1980	1981	1982	1983	1984	1985	1986, prel.	1975	1980	1985	1986, prel.
<b>Total</b> <sup>1</sup>	<b>26.8</b>	<b>42.4</b>	<b>43.7</b>	<b>43.8</b>	<b>36.0</b>	<b>34.7</b>	<b>36.5</b>	<b>39.8</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Mining.....	1.2	1.3	1.3	.7	.5	.8	.6	.7	4.5	3.1	1.6	1.8
Petroleum.....	8.9	14.8	15.8	19.7	15.5	14.1	14.9	15.7	33.2	34.9	40.8	39.4
Manufacturing <sup>1</sup> .....	11.3	19.5	19.2	16.8	13.7	14.0	15.3	17.3	42.2	46.0	41.9	43.5
Food and kindred products.....	.7	1.5	1.4	1.3	1.2	1.2	1.3	1.3	2.6	3.5	3.6	3.3
Chemicals and allied products.....	2.5	3.0	3.0	2.8	2.3	2.6	2.6	3.2	9.3	7.1	7.1	8.0
Machinery (except electrical).....	2.8	5.6	5.1	4.9	3.8	3.2	3.1	3.8	10.4	13.2	8.5	9.5
Electric and electronic equipment.....	.9	1.4	1.2	1.1	1.2	1.5	1.4	1.4	3.4	3.3	3.8	3.5
Transportation equipment.....	1.4	4.4	5.2	3.4	2.6	2.5	3.3	4.3	5.2	10.4	9.0	10.8
Trade.....	2.4	3.8	4.3	3.8	3.5	3.5	3.5	3.8	9.0	9.0	9.6	9.5
<b>By area of affiliate:</b>												
Developed countries.....	18.8	31.9	31.3	30.0	25.3	25.3	26.6	29.9	70.1	75.2	74.9	75.1
Canada.....	5.0	8.3	8.1	7.4	6.5	6.6	7.7	8.4	18.7	19.6	21.1	21.1
Europe.....	11.7	20.8	20.1	19.5	16.5	16.4	16.5	18.6	43.7	49.1	45.2	48.7
Japan.....	.8	.9	.8	.9	.6	.8	.8	1.0	3.0	2.1	2.2	2.5
Australia, New Zealand, South Africa.....	1.2	1.8	2.2	2.2	1.6	1.5	1.7	1.9	4.5	4.2	4.7	4.8
Developing countries.....	6.4	9.0	11.1	12.5	10.1	9.1	9.5	9.7	23.9	21.2	26.0	24.4
Latin America.....	3.1	4.8	5.7	5.2	3.3	3.7	4.1	4.5	11.8	10.8	11.2	11.3
Africa (excl. South Africa).....	.7	1.3	1.6	2.5	1.9	1.5	1.7	2.6	3.1	4.7	4.7	4.3
Middle East.....	1.3	.7	.5	.7	.8	.7	.5	.5	4.9	1.7	1.4	1.3
Other Asia and Pacific.....	1.3	2.5	3.3	4.1	4.1	3.3	3.1	3.0	4.9	5.9	8.5	7.5
International.....	1.7	1.5	1.4	1.3	.7	.4	.4	.3	6.3	3.5	1.1	.8

<sup>1</sup> Includes other industries not shown separately.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, March issues.

### NO. 898. CORPORATE PHILANTHROPY AS A PERCENT OF PRETAX NET INCOME: 1982 TO 1984

[Data are based on a sample of 1,800 corporations. Corporation must have given at least \$100,000]

INDUSTRY CLASS	1982	1983	1984	INDUSTRY CLASS	1982	1983	1984
All firms, average.....	.83	.83	.83	Manufacturing firms, average—Con.			
Manufacturing firms, average.....	.90	.86	.90	Pharmaceuticals.....	.99	1.15	1.30
Chemicals.....	.92	1.29	1.03	Primary metal industries.....	1.63	2.94	1.24
Electrical machinery and equipment.....	.80	.84	.90	Printing and publishing.....	1.26	1.10	1.19
Fabricated metal products.....	1.08	.29	1.26	Rubber, misc. plastic products.....	1.12	.68	.80
Food, beverage and tobacco.....	1.00	.69	1.10	Stone, clay and glass products.....	2.83	1.45	1.04
Machinery, nonelectrical.....	2.40	1.09	.95	Textiles.....	1.62	1.29	2.69
Mining.....	1.90	.49	.88	Transportation equipment.....	2.11	.73	.88
Paper and like products.....	1.80	1.66	1.15	Nonmanufacturing firms, average.....	.69	.76	1.01
Petroleum and gas.....	.61	.84	.70				

Source: Platzer, Linda Cardillo, *Annual Survey of Corporate Contributions*, The Conference Board, New York, NY. (Copyright.)

### NO. 899. PATENTS AND TRADEMARKS: 1961 TO 1985

[In thousands. Calendar year data. Covers patents issued to citizens of the United States and residents of foreign countries. For information on copyrights, see table 923. See also *Historical Statistics, Colonial Times to 1970*, series W 96-108]

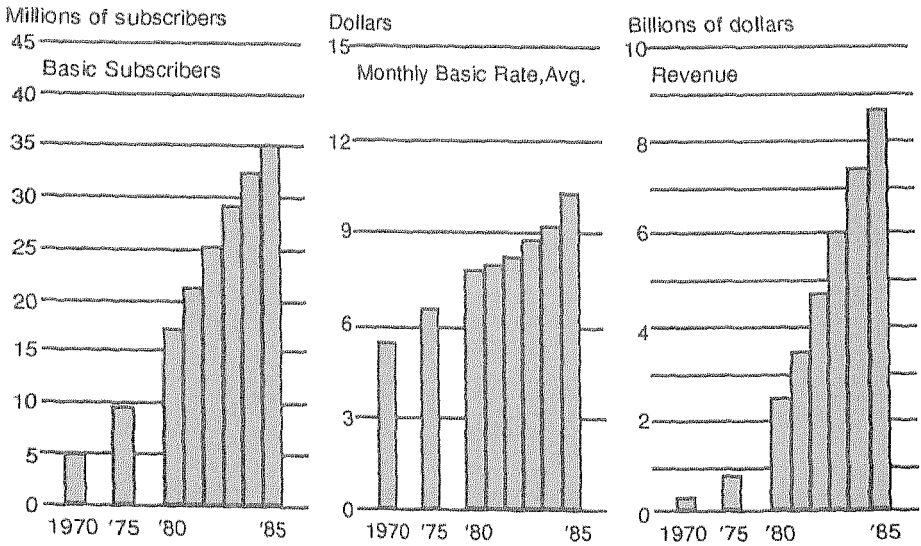
ITEM	1961-1970	1971-1980	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>Patent applications filed</b>	<b>967.8</b>	<b>1,091.5</b>	<b>109.0</b>	<b>109.3</b>	<b>108.9</b>	<b>113.0</b>	<b>114.5</b>	<b>118.4</b>	<b>112.4</b>	<b>120.6</b>	<b>127.1</b>
Inventions.....	912.3	1,019.4	100.9	100.9	100.5	104.3	106.4	109.6	103.7	111.3	117.0
Designs.....	51.6	65.8	7.3	7.5	7.5	7.8	7.4	8.2	8.1	8.7	9.6
Botanical plants.....	1.2	1.7	.2	.2	.2	.2	.2	.2	.3	.3	.2
Reissues.....	2.7	4.6	.6	.7	.6	.6	.5	.4	.3	.3	.3
<b>Patents issued</b>	<b>618.3</b>	<b>731.0</b>	<b>69.8</b>	<b>70.5</b>	<b>52.4</b>	<b>66.2</b>	<b>71.0</b>	<b>63.3</b>	<b>62.0</b>	<b>72.7</b>	<b>77.2</b>
Inventions.....	585.1	687.8	65.3	68.1	48.9	61.8	65.8	57.9	56.9	67.2	71.7
Individuals.....	143.3	152.0	14.0	14.3	9.3	13.3	14.1	11.9	10.5	12.3	12.9
Corporations: U.S.....	343.1	343.3	31.5	31.3	23.8	29.4	29.5	25.8	25.7	30.1	31.3
Foreign <sup>1</sup> .....	83.8	176.4	18.2	19.3	14.8	18.2	21.0	19.2	19.6	23.6	28.4
U.S. Government.....	14.9	16.1	1.5	1.2	.9	1.0	1.1	1.0	1.0	1.2	1.1
Designs.....	30.2	38.1	3.9	3.9	3.1	3.9	4.7	4.9	4.6	4.9	5.1
Botanical plants.....	1.0	1.6	.2	.2	.1	.1	.2	.2	.2	.2	.2
Reissues.....	2.1	3.4	.4	.4	.3	.3	.4	.3	.4	.3	.3
Published applications <sup>2</sup> .....	.6	1.3	.1	.1	.1	(2)	.1	(2)	(2)	(2)	(2)
Foreign country residents <sup>3</sup> .....	124.3	237.3	23.9	25.1	16.2	24.7	26.5	24.0	26.4	30.5	33.9
<b>Certificates of trademarks issued</b>	<b>235.1</b>	<b>309.0</b>	<b>31.8</b>	<b>35.1</b>	<b>25.9</b>	<b>24.7</b>	<b>48.6</b>	<b>48.4</b>	<b>48.8</b>	<b>54.0</b>	<b>71.7</b>
Trademarks.....	198.1	250.6	25.9	28.6	20.5	18.9	42.7	42.4	40.5	48.6	65.8
Trademark renewals.....	39.0	58.4	6.1	5.5	5.4	5.9	5.9	6.0	6.2	5.4	5.9

<sup>2</sup> Less than 50. <sup>1</sup> Includes patents to foreign governments. <sup>2</sup> Abstracts of technical disclosure of patent published at request of applicant or owner. The practice called "Defensive Publications" began Nov. 1968 and ended July 1985. The current practice, called "Statutory Invention Registrations," began May 1985.

<sup>3</sup> Includes patent inventions and patents for designs, botanical plants and reissues.

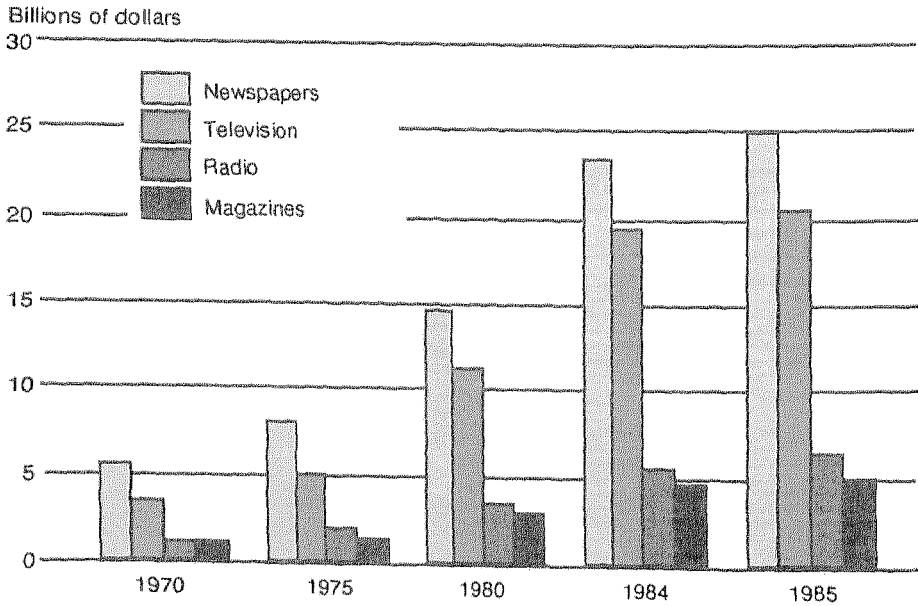
Source: U.S. Patent and Trademark Office. Fiscal-year figures are published in the *Commissioner of Patents and Trademarks Annual Report*.

Figure 18.1  
Cable TV – Basic Subscribers, Average  
Monthly Rate, and Revenue: 1970 to 1985

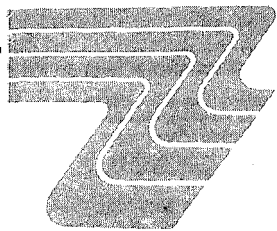


Source: Chart prepared by U.S. Bureau of the Census. For data, see table 915.

Figure 18.2  
Advertising Expenditures by Selected Media: 1970 to 1985



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 926.



# Communications

This section presents statistics on the usage, finances, and operations of the Postal Service and of the various communications media: Telephone, telegraph, radio, television, newspapers and periodicals. Expenditures data for advertising in the media are also included.

**Postal Service.**—The Postal Service provides mail processing and delivery services within the United States. The Postal Reorganization Act of 1970 created the Postal Service, effective July 1971, as an independent establishment of the Federal Executive Branch; it also placed restrictions on the private delivery of mail.

"Revenue and cost analysis" is the term used by the Postal Service to describe its system of attributing revenues and costs to classes of mail and service. This system draws primarily upon probability sampling techniques to develop estimates of revenues, volumes, and weights, as well as costs by class of mail and special service. The costs attributed to classes of mail and special services are primarily incremental costs which vary in response to changes in volume; they account for roughly 60 percent of the total costs of the Postal Service. The balance represents "institutional costs" which includes funds for research and development, portions of personnel and office supplies, etc. Statistics on revenues, volume of mail, and distribution of expenditures are presented in the Postal Service's annual report, *Revenue and Cost Analysis*, and its *Annual Report of the Postmaster General*.

**Communication media.**—The Federal Communications Commission (FCC), established in 1934, regulates wire and radio communications and licenses radio and television stations. Only the largest carriers and controlling companies file annual or monthly financial reports. Jurisdiction of the FCC applies to domestic and overseas telegraph carriers and to the Communications Satellite Corporation (Comsat), but not to a large number of telephone carriers that are engaged in intrastate service. The gross operating revenues of the telephone carriers reporting annually to the FCC, however, are estimated to cover about 90 percent of the revenues of all U.S. telephone companies.

Reports filed by the broadcasting industry cover substantially all radio and television stations operating in the United States and its outlying areas. Statistics covering the private radio services represent the largest and most diverse group of licensees regulated by the FCC. These services primarily provide two-way radio communication for emergency and business purposes in the aviation, marine, land transportation, and other industries; police, fire, and other public safety programs; and amateur and personal operations. Principal sources of wire, radio, and television data are the FCC's *Annual Report*, and its annual *Statistics of Communications Common Carriers*.

Statistics on the printed media are available from the U.S. Bureau of the Census, as well as from various private agencies. The censuses of manufactures (conducted by the Census Bureau every five years, for the years ending in "2" and "7") provide statistics on the number and circulation of newspapers and periodicals and on sales of books and pamphlets. Editor & Publisher Co., Inc., New York, presents annual data on the number and circulation of daily and Sunday newspapers in its *International Year Book*. Monthly data on new books and new editions appear in *Publishers Weekly*, issued by R. R. Bowker Company, New York. (See table 370 for annual data.)

**Advertising.**—The statistics on advertising expenditures are compiled primarily by private organizations. McCann-Erickson, Inc., which compiles certain of the data shown (see tables 924-926), defines national advertising as the advertising done for companies whose products are distributed nationally, and for which national media rates are paid. Local advertising is defined as the advertising done for companies which market their products locally and which may pay special "local" media rates. Spot advertising is considered time bought by a national advertiser on a selective market basis. Monthly index figures of advertising in certain media are also published periodically by McCann-Erickson in *Advertising Age*.

The Broadcast Advertisers Reports (see tables 928-930) distinguished between spot and local advertising primarily on the basis of the type of advertiser to whom the time is sold, rather than how and by whom it is sold. In general, time purchased on behalf of retail or service establishments in the market is considered local, even though the establishments may be part of a national or regional chain. That is, spot advertising promotes a product, while local advertising promotes a given es-

establishment. Network advertising, mutually exclusive of spot and local, is broadcast through the network system.

**Statistical reliability.**—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

**Statistics for States and metropolitan statistical areas (MSAs).**—Data for States and MSAs may also be found in *State and Metropolitan Area Data Book 1986*. For cross-references, see Appendix V.

### NO. 900. U.S. POSTAL SERVICE—SUMMARY: 1900 TO 1985

[For fiscal years; see text section 9. Includes Puerto Rico and all outlying areas except Canal Zone. See text section 18. See also *Historical Statistics, Colonial Times to 1970*, series R 163–171]

YEAR	Number of Post Offices	FINANCES <sup>1</sup>			Revenue per capita <sup>2</sup> (dol.)	Sales of stamps and stamped paper (mil. dol.)	Postage paid under permit and meter (mil. dol.)	Money orders issued, total (mil. dol.)	PIECES OF MAIL HANDLED (est.)			
		Revenues (mil. dol.)	Expenditures <sup>3</sup> (mil. dol.)	Deficit (mil. dol.)					Total <sup>4</sup> (bil.)	First-class <sup>5</sup>		Second-class (bil.)
										Number (bil.)	Percent	
1900.....	76,688	102	108	5	1.34	94	( <sup>7</sup> )	256	7.1	(NA)	(NA)	(NA)
1910.....	59,580	224	230	6	2.43	202	4	638	14.9	(NA)	(NA)	(NA)
1920.....	52,641	437	454	17	4.11	380	13	1,356	(NA)	(NA)	(NA)	(NA)
1930.....	49,063	705	804	98	5.75	575	74	1,767	27.9	16.9	60.6	5.0
1940.....	44,024	767	808	41	5.84	522	177	2,108	27.7	15.2	54.9	4.8
1950.....	41,464	1,677	2,223	545	11.14	862	678	<sup>8</sup> 5,138	45.1	24.5	54.3	8.3
1955.....	38,316	2,349	2,712	363	14.33	999	1,136	5,893	55.2	28.7	52.0	8.7
1960.....	35,238	3,277	3,874	597	18.27	1,245	1,689	5,056	63.7	33.2	52.1	7.5
1965.....	33,624	4,483	5,276	793	23.17	1,528	2,529	4,540	71.9	38.1	53.0	8.6
1970.....	32,002	7,702	7,867	165	31.05	1,936	3,883	4,709	84.9	48.6	57.2	9.4
1971.....	31,947	8,751	8,955	204	32.24	1,999	4,126	4,728	87.0	50.0	57.5	9.6
1972.....	31,686	9,347	9,522	175	37.89	2,371	4,861	4,731	87.2	48.9	58.1	9.5
1973.....	31,385	9,913	9,926	13	38.77	2,399	5,141	4,700	89.7	51.0	56.9	9.0
1974.....	31,000	10,857	11,295	438	42.85	2,504	5,623	5,194	90.1	51.6	57.3	8.8
1975.....	30,754	11,590	12,578	988	47.08	2,819	6,241	5,856	89.3	51.4	57.6	9.1
1976.....	30,521	12,747	13,923	1,176	52.21	3,155	6,883	6,243	89.8	52.1	58.0	8.9
1976,TQ <sup>9</sup> .....	30,521	3,402	3,387	<sup>10</sup> 15	14.11	815	1,695	1,639	21.5	12.5	58.1	2.1
1977.....	30,521	14,622	15,310	688	60.18	3,658	7,951	5,636	92.2	63.7	58.2	8.7
1978.....	30,518	15,841	16,220	379	64.91	3,943	8,668	5,587	98.9	56.0	57.8	8.7
1979.....	30,443	17,999	17,529	<sup>10</sup> 470	73.37	4,382	10,062	5,631	99.8	58.0	58.1	8.4
1980.....	30,326	19,106	19,412	306	77.32	4,287	10,828	6,112	106.3	60.3	56.7	8.4
1981.....	30,242	20,781	21,369	588	83.62	4,625	11,891	6,692	110.1	61.5	55.8	10.0
1982.....	30,155	23,628	22,826	<sup>10</sup> 802	97.83	5,559	13,984	6,920	114.0	62.3	54.5	9.5
1983.....	29,990	24,699	24,083	<sup>10</sup> 616	101.08	5,709	14,755	7,355	119.4	64.3	53.8	9.2
1984.....	29,750	26,474	26,357	<sup>10</sup> 117	107.77	6,023	16,067	8,121	131.5	68.4	52.0	9.5
1985.....	29,557	28,956	29,207	251	116.60	6,520	17,747	9,036	140.1	72.4	51.7	10.4

NA Not available. <sup>1</sup> After allowance for reimbursements, embossed envelope purchases, indemnity claims, and miscellaneous revenue and expenditure offsets. Through 1950, includes some payments and receipts applicable to services in prior years; beginning 1955, expenditures are shown in year in which obligation was incurred, and revenues in year which gave rise to the earnings, whether collected or accrued. In 1954, the Postal Service began receiving reimbursement for penalty and franked mail, and discontinued payment of subsidies to airlines. Revenues for 1960 include \$37.4 million reimbursement from the Treasury General Fund for statutory public services. These and other changes affect comparability of figures. See also footnote 2, table 901.

<sup>2</sup> Includes capital expenditures for plant and equipment and cost of materials and supplies, but no provision for depreciation. Also includes costs of certain services rendered to other agencies without reimbursement but excludes costs of certain services rendered to the Postal Service by other agencies. Beginning 1955, represents obligations incurred; beginning 1965, represents accrued expenses, including depreciation on fixed assets, reimbursable work for others, and expenses paid by certain other agencies without reimbursement by the Postal Service. <sup>3</sup> Operating revenue only; based on Bureau of the Census estimated total population as of Jan. 1, including Armed Forces abroad. <sup>4</sup> Includes other classes of mail not shown separately. See table 903.

<sup>5</sup> Items mailed at 1st-class rates and weighing 12 ounces or less. Beginning 1977, includes air mail which was discontinued as a separate class of mail. Includes items wholly or partially in writing or typewriting, cards or bills and statements of account, items closed against postal inspection, etc. <sup>6</sup> Includes mail paid at other than bulk rates. See footnote 7, table 901. <sup>7</sup> Service not inaugurated. <sup>8</sup> Includes postal notes issued under act of Congress. <sup>9</sup> Transition quarter, July-Sept.

<sup>10</sup> Net income.

Source: U.S. Postal Service, *Annual Report of the Postmaster General*.

## NO. 901. U.S. POSTAL SERVICE REVENUES: 1970 TO 1985

[In millions of dollars, except percent. For fiscal years; see text, section 10. Includes Puerto Rico and all outlying areas except Canal Zone. See text, section 18]

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>Total revenue</b> <sup>1</sup> .....	<b>7,702</b>	<b>11,590</b>	<b>14,822</b>	<b>15,841</b>	<b>17,999</b>	<b>19,106</b>	<b>20,781</b>	<b>23,828</b>	<b>24,699</b>	<b>26,474</b>	<b>28,956</b>
<b>SOURCE</b>											
Operating postal revenue <sup>2</sup> .....	6,347	10,015	12,998	14,133	16,106	17,143	19,133	22,600	23,582	25,314	27,736
Stamps, postal cards, etc. ....	1,936	2,819	3,658	3,943	4,382	4,287	4,625	5,559	5,709	6,023	6,520
Second-class postage paid in money (pound rates) <sup>3</sup> .....	192	284	427	551	755	881	911	996	991	1,056	1,339
Other postage paid under permit and meter .....	3,883	6,241	7,951	8,668	10,082	10,828	11,891	13,994	14,755	16,067	17,747
Box rents .....	44	87	109	124	153	180	168	168	202	188	230
Miscellaneous .....	236	556	748	758	863	892	1,427	1,771	1,801	1,847	1,774
Money-order revenues .....	56	53	105	89	91	95	111	122	124	132	126
Government appropriations .....	1,355	1,533	1,712	1,722	1,720	1,610	1,275	707	789	879	970
Percent of total revenue .....	17.6	13.2	11.7	10.9	9.6	8.4	6.1	3.0	3.2	3.3	3.3
Investment income, net .....	-	37	4-88	4-14	173	353	373	321	328	282	250
<b>MAIL AND SERVICE</b>											
First-class mail <sup>4</sup> .....	3,291	5,798	7,831	8,575	9,733	10,146	11,457	13,747	14,255	15,216	16,740
Priority mail <sup>5</sup> .....	282	411	468	497	561	612	758	823	849	928	960
Second-class publishers' mail <sup>7</sup> .....	190	277	416	539	739	864	885	961	958	1,025	1,093
Third-class mail <sup>8</sup> .....	827	1,348	1,748	1,987	2,216	2,412	2,643	3,303	3,677	4,241	4,887
Bulk rate .....	(NA)	1,167	1,508	1,745	1,967	2,168	2,405	3,092	3,482	4,039	4,697
Single piece rate and fees .....	(NA)	181	240	242	249	244	238	211	165	202	180
Fourth-class mail <sup>9</sup> .....	778	718	769	673	747	805	786	786	753	774	763
Zone rate mail (parcels, catalogs, etc.) .....	(NA)	577	594	460	484	500	499	507	500	519	524
Special fourth-class rate .....	(NA)	130	148	187	237	272	251	237	206	210	199
Library rate and fees .....	(NA)	11	28	27	27	33	36	44	47	45	40
Government mail <sup>10</sup> .....	199	484	611	626	678	745	761	918	913	901	934
International mail <sup>11</sup> .....	270	390	493	499	550	596	735	882	874	859	882
Special services .....	236	251	417	439	506	518	823	823	866	868	918
Express mail .....	(X)	(X)	(X)	89	134	184	270	339	422	490	544
Mailgrams .....	(X)	(X)	(X)	11	15	15	16	16	14	13	15
Other <sup>12</sup> .....	1,629	1,913	1,889	1,905	2,120	2,205	1,647	1,028	1,118	1,159	1,220

- Represents zero. NA Not available. X Not applicable. <sup>1</sup> Net revenue after refunds of postage. Beginning 1970, includes operating reimbursements. <sup>2</sup> The U.S. Postal Service was established July 1, 1971. Revenues for 1970 are those of the Post Office Department. Revenues for 1970 have been restated to be consistent with subsequent years. See also footnote 1, table 900. <sup>3</sup> Includes controlled circulation publications. <sup>4</sup> Interest expense on loans exceeded interest income received from investments. <sup>5</sup> See footnote 5, table 900. <sup>6</sup> Items otherwise qualified as 1st-class or airmail that exceed 12 ounces and 8 ounces, respectively. <sup>7</sup> Includes mail paid at other than bulk rates. Publishers' mail includes printed publications periodically issued and mailed at a known post office to paid subscribers. These include regular rate newspapers and magazines, and classroom and nonprofit rate publications. Outside-the-county publications are those mailed to destinations outside the county of publication. In addition, includes publications of at least 24 pages and containing at least 25 percent nonadvertising content issued quarterly or more frequently for mainly free distribution. This latter group, formerly known as "controlled circulation publications" was discontinued as a separate class of mail in March 1982. <sup>8</sup> Items less than 16 ounces in weight not mailed at either 1st- or 2d-class rates. <sup>9</sup> Items not mailed at 1st-, 2d-, or 3d-class rates, except government and international mail. May include parcel post, catalogs weighing 16 ounces or more, books, films, and records. <sup>10</sup> Penalty and franked mail. <sup>11</sup> Mail from U.S. to foreign countries paid at international mail rates. <sup>12</sup> Consists of unassignable revenues; includes domestic airmail until 1977.

Source: U.S. Postal Service, *Annual Report of the Postmaster General*.

## NO. 902. U.S. POSTAL SERVICE EMPLOYEES, BY TYPE: 1970 TO 1985

[In thousands, except as indicated. For fiscal years; see text, section 10. Includes Puerto Rico, and all outlying areas except Canal Zone. See *Historical Statistics, Colonial Times to 1970*, series R 187, for total employees]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
<b>Total employees</b> .....	<b>741</b>	<b>702</b>	<b>656</b>	<b>663</b>	<b>667</b>	<b>670</b>	<b>675</b>	<b>679</b>	<b>702</b>	<b>744</b>
Regular.....	549	559	526	534	536	544	547	547	561	586
Postmasters.....	30	30	28	28	29	29	29	28	28	28
Office supervisors and tech. personnel.....	37	37	37	36	36	37	38	39	45	46
Office clerks and mail handlers <sup>1</sup> .....	243	239	226	230	229	232	232	229	235	249
City carriers and vehicle drivers.....	165	167	156	160	160	164	165	166	171	179
Rural carriers.....	31	31	31	32	33	33	34	34	35	35
Other.....	42	55	47	48	49	49	49	51	47	48
Substitute (part-time).....	193	143	130	129	130	126	128	132	141	159
Compensation and employee benefits										
(mil. dol.).....	6,462	10,805	14,031	15,162	16,541	18,018	19,094	20,070	22,157	24,349
Avg. salary per employee (dol.) <sup>2</sup> .....	8,721	15,392	21,389	22,869	24,799	26,893	28,283	29,565	31,562	32,727
Pieces of mail per employee, average.....	115	127	148	151	159	164	169	176	187	188

<sup>1</sup> Includes mobile unit employees. <sup>2</sup> Includes fringe benefits.

Source: U.S. Postal Service, *Annual Report of the Postmaster General*.



## NO. 906. UTILIZATION OF SELECTED MEDIA: 1950 TO 1986

ITEM	Unit	1950	1960	1970	1975	1980	1981	1982	1983	1984	1985	1986
Households with —												
Telephone service <sup>1</sup>	Percent	(NA)	78.5	87.0	(NA)	93.0	(NA)	(NA)	(NA)	91.8	91.8	92.2
Radio sets <sup>2</sup>	Percent	92.6	96.3	98.6	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
Average number of sets	Number	2.1	3.7	5.1	5.6	5.5	5.5	5.5	5.5	5.5	5.5	5.4
Television sets <sup>3</sup>	Million	3.9	45.8	58.5	68.5	76.3	79.9	81.5	83.3	83.8	84.9	85.9
Television sets <sup>3</sup>	Percent	9	87	95	97	98	98	98	98	98	98	98
Color set households <sup>3</sup>	Millions	—	.3	20.9	46.9	63.4	66.3	71.4	73.9	75.8	77.7	80.1
Average viewing per day <sup>4</sup>	Hours	4.6	5.1	5.9	6.1	6.6	6.8	6.8	7.0	7.1	7.1	(NA)
Average number of sets <sup>5</sup>	Number	1.01	1.13	1.39	1.54	1.68	1.70	1.75	1.79	1.78	1.83	1.83
Cable TV <sup>6</sup>	Percent	(NA)	(NA)	(NA)	(NA)	19.8	25.3	29.0	37.2	41.2	44.6	46.8
VCR's <sup>7</sup>	Percent	(NA)	(NA)	(NA)	(NA)	1.1	1.8	3.1	5.5	10.6	20.8	36.0
Commercial radio stations: <sup>8</sup>												
AM	Number	2,232	3,539	4,323	4,463	4,589	4,634	4,668	4,733	4,754	4,718	(NA)
FM	Number	676	815	2,198	2,767	3,232	3,349	3,380	3,527	3,716	3,875	(NA)
Television stations: <sup>9</sup> Total	Number	89	559	862	953	1,011	1,038	1,065	1,106	1,138	1,182	1,235
Commercial	Number	(NA)	515	677	706	734	755	777	813	841	883	919
Cable television: <sup>9</sup>												
Systems	Number	10,70	640	2,490	3,506	4,225	4,375	4,825	5,600	6,200	6,844	7,800
Subscribers served	Millions	10.01	.65	4.5	9.8	15.5	18.3	21.0	25.0	30.0	31.3	37.5
Daily newspaper circulation: <sup>11</sup>												
Number	Millions	53.8	58.9	62.1	60.7	62.2	61.4	62.5	62.6	63.1	62.8	(NA)
Per capita <sup>12</sup>	Number	.354	.327	.305	.282	.275	.267	.269	.262	.267	.263	(NA)

— Represents zero. NA Not available. <sup>1</sup> For occupied housing units. 1950 through 1980, as of April 1; thereafter, as of March. Source: U.S. Bureau of the Census, *Census of Housing: 1960, 1970, and 1980*, vol. 1, and unpublished data. <sup>2</sup> As of Dec. 31, except as noted. Source: Radio Advertising Bureau, New York, NY, *Radio Facts*, annual (copyright). Number of stations on the air compiled from Federal Communications Commission reports. <sup>3</sup> 1970–1975, as of Sept. of prior year; all other years as of Jan. of year shown. Source: 1950–1985, National Broadcasting Company, New York, NY, thereafter, A.C. Nielsen Company, Northbrook, IL, *Nielsen Report on Television* (copyright). <sup>4</sup> Calendar year data. Source: A.C. Nielsen Company, Northbrook, IL, *Nielsen Report on Television* (copyright). <sup>5</sup> 1970 and 1975, as of Sept; all other years, as of Jan. Excludes Alaska and Hawaii. Source: Television Bureau of Advertising, Inc. New York, NY, "Trends in Television 1950 to Date", March 1986. <sup>6</sup> As of February. Source: See footnote 4. <sup>7</sup> As of February. Excludes Alaska and Hawaii. Source: A.C. Nielsen Company, Northbrook, IL, *VCR Trends* (copyright). <sup>8</sup> As of February 1988. <sup>9</sup> As of Jan. 1. Source: Television Digest, Inc., Washington, DC, *Television and Cable Factbook*, annual (copyright). Number of television stations on the air. <sup>10</sup> Data for 1952. <sup>11</sup> As of Sept. 30, except 1950 and 1960, as of Oct. 1. Source: Editor & Publisher, Inc., New York, NY, *Editor & Publisher International Year Book*, annual (copyright). <sup>12</sup> Per capita based on total resident population enumerated as of April 1, 1970 and 1980, and estimated as of July 1 for other years.

Source: Compiled from sources listed in footnotes.

## NO. 907. MULTIMEDIA AUDIENCES—SUMMARY: 1983 AND 1986

[In percent, except as indicated. As of spring. For persons 18 years old and over. Based on sample and subject to sampling error; see source for details]

ITEM	Total popula- tion (1,000)	TELEVISION WATCHERS					RADIO LISTENERS		NEWSPAPER READERS	
		Prime time	Cable	Pay	News		Week- day	Week- end	Daily	Sunday
					Early	Late				
Total, 1983 .....	164,662	81.8	30.4	19.0	51.2	42.8	81.5	69.2	61.5	64.7
<b>Total, 1986 .....</b>	<b>170,599</b>	<b>82.3</b>	<b>44.5</b>	<b>27.6</b>	<b>50.6</b>	<b>41.6</b>	<b>81.4</b>	<b>66.1</b>	<b>60.5</b>	<b>65.6</b>
18-24 years old .....	27,990	75.3	44.1	33.1	36.4	30.9	93.8	81.6	52.6	58.7
25-34 years old .....	40,798	82.5	44.5	30.0	41.1	38.3	88.2	71.4	53.1	64.5
35-44 years old .....	30,486	83.5	49.1	34.7	41.5	41.6	83.3	64.8	62.6	68.1
45-54 years old .....	22,494	84.4	48.6	31.7	54.5	47.9	80.9	61.8	67.6	70.0
55-64 years old .....	22,366	85.4	44.1	23.7	66.3	50.2	73.5	58.6	68.2	70.9
65 years old and over .....	26,465	83.3	36.8	9.9	74.5	45.1	62.5	52.9	65.4	63.3
Male .....	81,025	81.4	45.3	28.2	48.5	40.9	83.8	67.5	61.8	65.7
Female .....	89,573	83.0	43.9	27.1	52.6	42.1	79.2	64.8	59.4	65.5
White .....	148,266	82.5	46.6	28.4	49.3	40.3	81.7	65.3	62.1	66.7
Black .....	18,639	80.7	30.8	22.6	63.3	52.1	80.1	72.6	51.9	59.2
Other .....	3,694	79.5	31.7	21.5	41.7	40.5	76.6	64.9	41.7	51.2
Spanish speaking .....	6,639	80.5	45.0	27.8	41.0	40.0	82.3	67.5	52.0	59.5
College graduate .....	28,587	80.7	50.7	31.2	45.5	43.5	86.4	66.5	70.2	78.9
Attended college .....	29,580	79.7	49.9	34.1	44.2	41.0	87.3	69.7	64.5	73.1
High school graduate .....	66,991	84.6	45.4	29.2	50.6	42.0	82.5	68.2	61.6	65.9
Not high school graduate .....	45,441	81.4	36.0	18.8	58.1	40.0	72.6	60.4	50.2	51.8
Employed: Full-time .....	94,634	81.5	47.6	32.6	42.9	39.2	87.6	69.3	61.6	67.7
Part-time .....	10,214	82.3	44.4	29.1	43.7	40.2	87.5	72.8	63.2	69.1
Not employed .....	65,750	83.3	40.1	20.3	62.8	45.1	71.4	60.4	58.6	62.0
Household income:										
Less than \$10,000 .....	19,786	81.0	27.8	9.7	65.1	41.7	68.4	60.9	42.9	44.4
\$10,000 to \$19,999 .....	31,979	82.9	37.1	17.8	57.2	42.0	77.1	65.8	56.6	58.5
\$20,000 to \$24,999 .....	16,851	84.4	41.9	23.6	49.7	42.6	81.9	65.8	56.7	64.3
\$25,000 to \$29,999 .....	16,529	83.3	45.4	28.7	50.9	42.6	83.1	68.8	59.4	63.5
\$30,000 to \$34,999 .....	16,450	84.1	49.3	31.1	47.0	42.7	84.9	65.5	64.1	68.8
\$35,000 to \$39,999 .....	14,364	80.8	50.8	34.4	44.1	39.9	85.5	70.7	64.1	71.9
\$40,000 to \$49,999 .....	23,128	82.4	52.4	38.3	45.5	40.1	84.8	68.6	66.1	73.8
\$50,000 or more .....	31,512	80.3	52.5	37.6	43.8	41.2	86.4	64.9	70.6	77.2

Source: Mediabank Research Inc., New York, NY, *Multimedia Audiences*, Spring 1983 and 1986. (Copyright.)

## No. 908. TELEPHONE AND TELEGRAPH SYSTEMS: 1960 to 1984

[Covers principal carriers filing annual reports with Federal Communications Commission. See *Historical Statistics, Colonial Times to 1970*, series R 46-70 and R 75-88, for data on telegraph systems]

ITEM	Unit	1960	1965	1970	1975	1979	1980	1981	1982	1983	1984
<b>Domestic telephone:</b> <sup>1</sup>											
Carriers.....	Number.....	52	54	56	62	61	59	60	61	62	61
Telephones <sup>2</sup> .....	Million.....	66	82	105	130	153	157	158	151	(NA)	(NA)
Miles of wire.....	Million.....	316	436	628	872	1,081	1,131	1,188	1,223	1,260	1,290
Gross book cost of plant.....	Bill. dol.....	25.7	38.0	59.9	95.5	134.9	147.4	161.5	174.0	184.2	188.0
Depreciation reserves <sup>3</sup> .....	Bill. dol.....	5.6	8.1	13.2	18.8	24.9	28.5	30.0	34.0	39.7	42.9
Ratio to book cost.....	Percent.....	21.7	21.4	22.1	19.7	18.5	18.0	18.6	19.6	21.5	23.4
Capital stock and premium.....	Bill. dol.....	10.7	14.9	16.4	21.8	28.8	31.3	34.5	38.8	43.4	47.7
Operating revenues.....	Bill. dol.....	8.4	11.8	16.2	31.3	49.8	55.6	63.7	70.7	75.0	98.9
Operating expenses <sup>4</sup> .....	Bill. dol.....	5.0	7.1	11.7	20.2	33.0	37.3	42.8	49.1	50.9	74.7
Net operating income <sup>5</sup> .....	Bill. dol.....	1.4	2.1	3.1	5.6	8.9	10.0	11.4	11.4	12.4	12.4
Net income.....	Bill. dol.....	1.3	1.9	2.3	3.6	6.0	6.6	7.5	7.3	7.6	8.5
Employees.....	1,000.....	627	665	839	840	928	938	945	909	858	742
Compensation of employees.....	Bill. dol.....	3.4	4.3	7.0	11.7	18.4	20.2	22.2	24.8	25.1	22.7
<b>Overseas telephone:</b>											
Number of overseas calls.....	Million.....	3.3	7.5	23.4	62.2	168.3	199.6	265.5	310.8	369.5	427.6
Revenue from overseas calls.....	Mill. dol.....	16	101	252	562	1,106	1,535	1,654	1,461	1,697	1,771
Ocean cable systems.....	Number.....	5	13	17	21	22	24	24	24	26	26
Communications satellites <sup>6</sup> .....	Number.....	-	1	4	5	5	5	5	6	6	6
<b>Domestic telegraph:</b>											
Carriers.....	Number.....	1	1	1	1	1	1	1	1	1	1
Revenue messages transmitted.....	Million.....	124	94	70	42	55	55	56	50	42	39
Message revenues <sup>7</sup> .....	Mill. dol.....	190	192	234	197	271	296	320	320	316	321
Total operating revenues.....	Mill. dol.....	262	306	402	505	636	697	779	809	722	738
Operating revenue deductions.....	Mill. dol.....	247	282	368	435	561	603	669	726	654	712
Operating income <sup>8</sup> .....	Mill. dol.....	11	24	34	70	75	94	110	84	68	26
Teletypewriter messages.....	Million.....	33	47	46	54	59	68	63	(NA)	(NA)	(NA)
<b>Overseas telegraph:</b> <sup>9</sup>											
Carriers.....	Number.....	9	6	6	6	7	7	7	7	6	6
Revenue messages transmitted.....	Million.....	28	29	32	26	21	20	18	15	11	9
Message revenues <sup>7</sup> .....	Mill. dol.....	71	78	124	217	355	380	405	411	395	411
Total operating revenues.....	Mill. dol.....	87	107	194	316	497	535	578	613	616	845
Operating revenue deductions.....	Mill. dol.....	77	97	156	245	362	405	468	532	560	611
Operating income <sup>8</sup> .....	Mill. dol.....	6	14	26	48	85	79	70	58	47	23
<b>Return on investment:</b> <sup>10</sup>											
Telephone.....	Percent.....	7.3	7.3	7.1	7.6	8.5	8.7	9.0	8.4	8.7	8.7
Domestic telegraph.....	Percent.....	5.0	5.6	5.0	6.1	5.5	6.6	7.4	5.3	3.9	1.5
Overseas telegraph.....	Percent.....	7.2	11.0	10.6	12.0	17.9	15.9	12.5	8.1	6.8	3.4

- Represents zero. NA Not available. <sup>1</sup> Includes Puerto Rico and, beginning 1965, Virgin Islands. Excludes intercompany duplications. Gross operating revenues of carriers reporting since 1970 estimated at 90 percent of all carriers. <sup>2</sup> Includes company, service, and private. <sup>3</sup> Includes amortization reserves. <sup>4</sup> Excludes taxes. <sup>5</sup> After tax deductions. <sup>6</sup> Excludes contingency and retired satellites. <sup>7</sup> Includes letter service; for domestic telegraph, excludes TWX. <sup>8</sup> After Federal income taxes. <sup>9</sup> Beginning 1985, excludes South American and most Caribbean operations of All America Cables and Radio, Inc. <sup>10</sup> Ratio of net operating income (after taxes) to average net book cost of communications plant.

Source: U.S. Federal Communications Commission, *Statistics of Communications Common Carriers*, annual, and unpublished data.

## No. 909. TELEPHONE COMPANIES—SUMMARY: 1970 to 1985

[As of Dec. 31 or calendar year, as applicable. See also *Historical Statistics, Colonial Times to 1970*, series R 31-45]

ITEM	Unit	INDEPENDENT COMPANIES <sup>1</sup>								TOTAL <sup>2</sup>	
		1970	1975	1980	1981	1982	1983	1984	1985	1984	1985
<b>All companies.....</b>	<b>Number.....</b>	<b>1,841</b>	<b>1,618</b>	<b>1,483</b>	<b>1,459</b>	<b>1,432</b>	<b>1,429</b>	<b>1,416</b>	<b>1,402</b>	<b>1,440</b>	<b>1,426</b>
Telephones.....	1,000.....	20,312	26,823	34,665	35,341	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Access lines.....	1,000.....	(NA)	16,855	20,808	21,429	21,672	22,331	23,020	24,330	114,474	118,275
Total telephone plant.....	Mill. dol.....	12,380	21,200	35,300	36,298	41,500	44,500	45,850	49,069	193,779	207,289
Operating revenues.....	Mill. dol.....	2,953	5,500	10,475	12,206	13,880	14,875	16,000	17,245	73,868	78,425
Average daily conversations, total.....	1,000.....	109,279	146,000	182,000	201,100	201,800	209,200	210,000	223,452	1,199,220	1,263,537
Local calls.....	1,000.....	104,361	137,678	177,216	184,409	183,840	188,070	190,000	203,138	1,111,458	1,162,353
Toll calls.....	1,000.....	4,918	8,322	14,784	16,691	17,960	21,130	20,000	20,314	87,762	102,184
<b>Reporting companies<sup>3</sup>.....</b>	<b>Number.....</b>	<b>884</b>	<b>731</b>	<b>785</b>	<b>768</b>	<b>754</b>	<b>678</b>	<b>631</b>	<b>653</b>	<b>655</b>	<b>877</b>
Telephones.....	1,000.....	18,182	25,548	33,748	34,593	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Access lines.....	1,000.....	(NA)	(NA)	19,412	20,561	21,146	21,077	22,069	23,430	113,556	117,375
Telephone plant in service.....	Mill. dol.....	11,175	18,520	32,491	35,986	38,847	40,463	42,093	45,501	186,151	199,978
Depreciation reserves.....	Mill. dol.....	2,203	4,120	7,820	8,905	10,220	11,553	12,864	14,310	45,748	52,872
Operating revenues.....	Mill. dol.....	2,791	5,294	10,177	11,860	13,445	14,309	15,403	16,684	73,780	77,864
Operating expenses <sup>4</sup> .....	Mill. dol.....	1,953	3,639	7,279	8,449	10,699	11,432	12,305	13,323	59,788	63,679
Net income.....	Mill. dol.....	356	711	1,268	1,505	1,751	1,968	2,199	2,434	9,313	10,063
Common stock and surplus.....	Mill. dol.....	3,733	6,181	9,623	10,641	11,396	12,060	12,781	13,940	63,147	66,510
Net income to common stock and surplus.....	Percent.....	9.5	11.5	13.2	14.2	15.4	16.3	17.2	17.5	14.7	15.1
Employees.....	1,000.....	142	152	189	192	186	175	168	200	724	725
Wages and salaries.....	Mill. dol.....	1,001	1,737	3,373	3,775	4,069	4,223	4,429	4,558	22,112	21,443

NA Not available. <sup>1</sup> Companies independent of the Bell System, prior to divestiture of January 1984. <sup>2</sup> All telephone companies. <sup>3</sup> Comprises only companies submitting operating information to source cited below. <sup>4</sup> Excludes Federal income tax.

Source: United States Telephone Association, Washington, DC, *Statistics of the Telephone Industry*, annual. (Copyright.)

## NO. 910. REA AND RURAL TELEPHONE BANK PROGRAM—SUMMARY: 1960 TO 1985

ITEM	Unit	1960	1970	1975	1979	1980	1981	1982	1983	1984	1985
Loans and guarantees approved, Dec. 31: <sup>1</sup>											
Borrowers.....	Number.....	727	862	921	981	990	1,010	1,029	1,037	1,035	1,034
REA amount.....	Mill. dol.....	1,816	2,576	3,606	3,845	4,076	4,327	4,327	4,540	4,742	4,837
Guaranteed amount.....	Mill. dol.....	-	-	237	392	418	553	626	672	701	679
Rural Telephone Bank amount.....	Mill. dol.....	-	-	618	1,262	1,388	1,529	1,726	1,872	2,000	2,131
Route miles of line, <sup>2</sup> Dec. 31.....	1,000.....	287	547	653	772	798	805	831	847	868	872
Subscribers, Dec. 31.....	1,000.....	1,142	2,335	3,045	4,073	4,262	4,375	4,546	4,629	4,747	4,792
Telephones in service.....	1,000.....	1,280	2,989	4,355	6,335	6,770	6,953	7,147	(NA)	(NA)	(NA)
Total operating revenues.....	Mill. dol.....	94	363	753	1,540	1,758	2,042	2,389	2,643	2,910	3,108
Total telephone plant.....	Mill. dol.....	635	2,085	3,850	6,558	7,388	8,034	8,897	9,532	10,195	10,671
Employees.....	1,000.....	9.7	15.4	20.0	27.9	28.4	28.7	28.8	28.9	28.7	28.3

- Represents zero. NA Not available. <sup>1</sup> Cumulative net loans (cancellations deducted). <sup>2</sup> Line in service.

Source: U.S. Rural Electrification Administration, *Statistical Report—Rural Telephone Borrowers*, annual.

## NO. 911. PRIVATE RADIO STATIONS AUTHORIZED BY CLASS: 1980 TO 1985

[In thousands. As of Sept. 30. Includes Puerto Rico and Virgin Islands. See also *Historical Statistics, Colonial Times to 1970*, series R 140-148]

CLASS	1980	1984	1985	CLASS	1980	1984	1985
<b>Private radio services <sup>1</sup></b>	<b><sup>2</sup> 16,357.3</b>	<b><sup>3</sup> 2,293.3</b>	<b><sup>3</sup> 2,419.5</b>	Land transportation.....	28.0	35.8	37.7
Personal.....	14,560.2	(X)	(X)	Railroad.....	10.0	12.4	13.8
Citizens Band.....	14,308.4	(X)	(X)	Taxicab.....	4.8	6.1	6.1
General mobile.....	20.2	33.0	33.6	Interurban property.....	3.1	4.1	4.4
Radio control.....	231.7	(X)	(X)	Other.....	9.9	13.2	13.4
Amateur and disaster.....	389.9	413.2	415.4	Marine.....	398.3	497.5	525.3
Aviation.....	231.6	245.3	245.7	Ship.....	386.6	483.1	510.4
Aircraft.....	196.8	208.0	207.3	Alaskan.....	2.6	2.7	2.7
Aeronautical and fixed.....	9.5	10.4	10.9	Coastal and other.....	9.1	11.7	12.2
Civil air patrol.....	21.6	22.7	23.0	Public safety.....	137.1	184.2	194.5
Other.....	3.7	4.2	4.5	Police.....	42.3	41.1	42.3
Industrial.....	504.9	767.9	811.3	Fire.....	20.8	34.9	36.8
Power.....	23.1	31.4	34.4	Forestry conservation.....	7.6	8.8	9.6
Business.....	370.4	561.6	583.5	Highway maintenance.....	9.7	11.9	12.7
Petroleum.....	17.9	23.5	25.2	Special emergency.....	22.4	35.5	37.4
Forest products.....	6.4	9.1	9.8	Other.....	34.2	52.0	55.9
Special industrial.....	72.1	110.2	115.0	Operational fixed services <sup>4</sup> .....	18.0	20.5	23.1
Other.....	14.7	32.1	33.4				

X Not applicable. <sup>1</sup> Each license, construction permit, or combination construction permit and license is counted as one station; therefore, a station might include a transmitter and many mobile units. <sup>2</sup> Includes 89,096 stations for which a breakdown by class is not available. <sup>3</sup> Includes land mobile above 470 MHz (95,988 in 1984, and 132,882 in 1985) not shown separately.

<sup>4</sup> Includes microwave operations.

Source: U.S. Federal Communications Commission, *Annual Report*, and unpublished data.

## NO. 912. PUBLIC TELEVISION STATIONS: 1968 TO 1984

[Based on a "typical" broadcast week through 1972; calendar year data for 1974 and 1976; fiscal year data thereafter. General programming is directed at the general community. Instructional programming is directed at students in the classroom or otherwise in the general context of formal education]

ITEM	1968	1970	1972	1974	1976	1978	1980	1982	1984
Stations broadcasting.....	<sup>1</sup> 153	<sup>1</sup> 190	220	<sup>2</sup> 238	<sup>3</sup> 253	272	281	291	303
<b>Total weekly broadcast hours.....</b>	<b><sup>1</sup> 8,534</b>	<b><sup>1</sup> 12,217</b>	<b>15,587</b>	<b>18,321</b>	<b>22,096</b>	<b>26,064</b>	<b>27,643</b>	<b>30,337</b>	<b>32,293</b>
General programs.....	4,671	7,697	7,904	10,888	14,329	17,929	19,508	21,418	23,154
Percent of total hours.....	54.7	63.0	50.7	59.3	64.8	68.8	69.6	70.6	71.7
Instructional programs <sup>4</sup> .....	3,863	4,520	7,683	7,453	7,766	8,135	8,135	8,919	9,139
<b>Average weekly broadcast hours per station.....</b>	<b>56.1</b>	<b>65.3</b>	<b>70.9</b>	<b>80.7</b>	<b>90.9</b>	<b>95.8</b>	<b>99.8</b>	<b>104.3</b>	<b>106.6</b>
General programming.....	30.7	41.1	36.0	47.9	59.0	65.9	69.4	73.6	76.4
Instructional programming <sup>5</sup> .....	25.4	24.2	34.9	32.8	31.9	29.9	30.4	30.7	30.2

<sup>1</sup> 152 stations reported in 1968 and 187 in 1970; details include data for reporting stations only. <sup>2</sup> Includes data for 227 stations only, representing 147 primary broadcasters; does not include secondary broadcasters. <sup>3</sup> Includes data for 243 stations only, representing 151 primary broadcasters. <sup>4</sup> Beginning 1974, includes material from Children's Television Workshops.

Source: Through 1970, National Instructional Television Center, Bloomington, IN, *One Week of Educational Television, 1970* (copyright); 1972, Corporation for Public Broadcasting, *One Week of Public TV, April 1972*, and unpublished data; 1974-1984, Corporation for Public Broadcasting, *PTV Programming Content by Category Report Series*, and unpublished data.

## NO. 913. PUBLIC BROADCASTING SYSTEMS—INCOME BY SOURCE: 1975 TO 1985

[In millions of dollars, except as indicated. Stations as of Dec. 31; fiscal year data for income. Beginning 1979, includes nonbroadcast income]

NUMBER OF STATIONS AND INCOME SOURCE	1975	1979	1980	1981	1982	1983	1984	1985, prel.	PERCENT DISTRIBUTION		
									1975	1980	1985, prel.
Number of CPB-qualified public radio stations.....	169	210	217	238	255	266	275	288	(x)	(x)	(x)
Public television stations.....	260	281	290	293	299	300	304	316	(x)	(x)	(x)
<b>Total income.....</b>	<b>364.8</b>	<b>603.5</b>	<b>704.9</b>	<b>768.9</b>	<b>845.2</b>	<b>899.2</b>	<b>974.2</b>	<b>1,101.3</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Federal government.....	92.3	163.2	192.5	193.7	197.6	163.7	167.0	178.6	25.3	27.3	16.3
State and local government <sup>1</sup> .....	156.8	245.5	271.9	277.5	301.0	318.3	334.5	363.0	42.9	38.5	33.0
Subscribers and auction/marathon.....	42.3	86.1	102.3	130.8	162.5	195.4	215.2	246.7	11.6	14.5	22.4
Business and industry.....	25.1	57.9	72.4	85.8	100.5	119.8	144.7	170.8	6.9	10.3	15.5
Foundation.....	28.7	20.4	23.5	19.3	22.1	24.9	27.8	43.7	7.9	3.3	4.0
Other.....	19.8	30.4	42.6	60.8	61.5	76.0	85.0	97.5	5.4	5.0	8.6

X Not applicable. <sup>1</sup> Includes income received from State colleges and universities, and, beginning 1979 from other tax supported colleges and universities.

Source: Corporation for Public Broadcasting (CPB), Washington, DC, *Public Broadcasting Income, Fiscal Year, 1985*, and unpublished data.

## NO. 914. CABLE TELEVISION—SYSTEMS AND SUBSCRIBERS: 1952 TO 1986

[Subscribers in thousands, except percent. Estimated]

YEAR (As of Jan. 1)	Sys- tems	Sub- scribers	YEAR (As of Jan. 1)	Sys- tems	Sub- scribers	SUBSCRIBER SIZE-GROUP	Number of— <sup>1</sup>		Percent of— <sup>1</sup>	
							Sys- tems	Sub- scribers	Sys- tems	Sub- scribers
1952.....	70	14	1976.....	3,681	10,800	1986, total <sup>2</sup> .....	7,057	36,933	100.00	100.00
1955.....	400	150	1977.....	3,832	11,900	50,000 and over.....	126	10,326	1.79	27.98
1960.....	640	650	1978.....	3,875	13,000	20,000–49,999.....	309	9,450	4.38	25.59
1965.....	1,325	1,275	1979.....	4,150	14,100	10,000–19,999.....	459	6,440	6.50	17.44
1969.....	2,260	3,600	1980.....	4,225	16,000	5,000–9,999.....	629	4,420	8.91	11.97
1970.....	2,490	4,500	1981.....	4,375	18,300	3,500–4,999.....	395	1,656	5.60	4.48
1971.....	2,639	5,300	1982.....	4,825	21,000	1,000–3,499.....	1,700	3,280	24.09	8.88
1972.....	2,841	6,000	1983.....	5,600	25,000	500–999.....	1,106	788	15.67	2.13
1973.....	2,991	7,300	1984.....	6,200	30,000	250–499.....	1,082	393	15.33	1.06
1974.....	3,158	8,700	1985.....	6,600	32,000	Less than 250.....	1,251	180	17.73	.49
1975.....	3,508	9,800	1986.....	7,600	37,500					

<sup>1</sup> As of April 1, 1986. <sup>2</sup> Excludes 414 systems not available by subscriber size-group.

Source: Television Digest, Inc., Washington, DC, *Television & Cable Factbook*, annual. (Copyright.)

## NO. 915. CABLE AND PAY TV—SUMMARY, 1955 TO 1985, AND PROJECTIONS, 1990 AND 1995

[Cable TV for calendar year, Pay TV as of Dec. 31 of year shown]

YEAR	CABLE TV				PAY TV					
	Avg. basic sub- scribers (1,000)	Avg. month- ly basic rate (dol.)	Revenue <sup>1</sup> (mil. dol.)		Units <sup>2</sup> (1,000)		Monthly rate (dol.)		Pay cable units per 1,000	
			Total	Basic	Total	Pay cable	Total	Pay- cable	Home passed	Basic cable sub- scribers
1955.....	250	5.00	20	20	(x)	(x)	(x)	(x)	(x)	(x)
1960.....	750	5.00	50	50	(x)	(x)	(x)	(x)	(x)	(x)
1965.....	1,500	5.00	95	95	(x)	(x)	(x)	(x)	(x)	(x)
1970.....	5,100	5.50	345	345	(x)	(x)	(x)	(x)	(x)	(x)
1975.....	9,800	6.50	804	774	469	469	(x)	7.85	111	236
1976.....	11,000	6.75	972	801	1,021	978	(NA)	7.87	106	229
1977.....	12,200	7.00	1,163	1,034	1,733	1,642	8.12	7.92	122	350
1978.....	13,400	7.25	1,424	1,176	3,580	3,289	8.62	8.09	179	413
1979.....	15,000	7.50	1,814	1,362	6,409	5,732	9.37	8.44	223	506
1980.....	17,500	7.75	2,436	1,847	10,389	8,144	9.78	8.80	279	688
1981.....	21,500	7.95	3,460	2,091	17,521	15,450	10.13	9.02	376	840
1982.....	25,400	8.25	4,705	2,564	23,179	20,791	10.36	9.57	462	843
1983.....	29,450	8.74	6,042	3,144	28,115	25,418	10.25	9.84	473	875
1984.....	32,600	9.20	7,396	3,628	31,027	29,966	10.32	10.08	495	835
1985.....	35,444	10.25	8,555	4,508	31,056	30,596	10.53	10.42	473	875
1990, proj.....	45,680	12.87	13,376	7,053	(NA)	42,520	(NA)	11.37	532	910
1995, proj.....	54,780	17.22	20,962	11,317	(NA)	55,470	(NA)	12.56	648	1,000

NA Not available. X Not applicable. <sup>1</sup> Includes installation revenue. <sup>2</sup> Individual program services sold to subscribers.

Source: Paul Kagan Associates, Inc., Carmel, CA, *The Cable TV Financial Databook*, annual. (Copyright.)

## NO. 916. RELIGIOUS TELEVISION PROGRAM VIEWING BY SELECTED DEMOGRAPHIC GROUPS: 1983

[In percent. Based on quota samples of persons 18 yrs. old and over, May 1983. Samples taken in ten markets in the Northeast and Southeast defined by Arbitron as Areas of Dominant Influence (ADI). Viewers are diary keepers who indicated they watched a religious TV program for 15 minutes within the previous diary period. Confirmed frequent viewers are those who responded they viewed religious TV frequently and had indicated viewing in their written TV diaries. Religious programs were those identified by either Arbitron's *Syndicated Program Analysis* or *TV Guide*. For further details on the regional sample as well as national sample, see source.]

GROUP	VIEWERS		Non-viewers	GROUP	VIEWERS		Non-viewers
	Confirmed frequent	Other			Confirmed frequent	Other	
Total <sup>1</sup> .....	18.0	42.9	39.3	Household income:			
Age:				Under \$15,000 .....	25.9	45.5	28.6
18-29 years old .....	5.3	34.6	60.2	\$15,000 to \$24,999 .....	17.4	46.6	36.1
30-49 years old .....	11.9	44.6	43.5	\$25,000 to \$35,000 .....	13.0	39.0	48.0
50-65 years old .....	27.7	43.7	28.6	Over \$35,000 .....	9.3	36.7	54.1
Over 65 years old .....	32.8	46.0	21.2	Importance of religion:			
Sex:				Very important .....	25.3	49.0	25.8
Male .....	16.1	41.2	42.7	Important .....	9.3	39.2	51.5
Female .....	19.3	43.6	37.1	Not very important .....	1.4	17.5	81.1
Place:				Not important at all .....	2.5	12.3	85.2
White .....	16.3	40.8	42.9	Denomination:			
Non-white .....	26.3	53.5	20.1	Southern Baptist .....	21.8	55.4	22.8
Region:				Other Baptist .....	28.4	50.3	21.3
Northeast .....	16.1	34.4	49.4	Lutheran .....	15.2	42.0	42.9
Southeast .....	19.9	50.9	29.2	Methodist .....	18.4	48.4	33.2
Education:				Presbyterian .....	11.9	45.9	42.3
Less than high school .....	29.2	45.5	25.3	Catholic .....	6.4	31.4	60.2
High school graduate .....	16.9	44.1	39.0	Church attendance:			
Some college and more .....	11.8	39.6	48.6	Once a week or more .....	22.8	47.6	29.6
				Less than once a week .....	12.2	37.0	50.8
				Local annual contributions:			
				None .....	9.7	25.7	64.6
				Under \$120 .....	14.6	42.0	43.4
				\$120 to \$300 .....	16.9	43.8	39.3
				\$301 to over \$1,200 .....	23.7	49.3	27.0

<sup>1</sup> Includes other denominations, not shown separately.

Source: The Annenberg School of Communication, University of Pennsylvania, Philadelphia, PA, and the Gallup Organization, Inc., Princeton, NJ, *Religion and Television*, April 1984.

## NO. 917. RADIO AND TELEVISION STATIONS OWNED BY NEWSPAPERS AND/OR MAGAZINES: 1961 TO 1985

DATE	AM radio	FM radio	TV	DATE	AM radio	FM radio	TV	DATE	AM radio	FM radio	TV
1961, Sept. 1 .....	412	147	161	1973, Dec. 1 .....	304	211	179	1980, Dec. 1 .....	315	264	230
1965, Oct. 31 .....	391	170	174	1974, Dec. 1 .....	321	236	193	1981, Dec. 1 .....	311	277	246
1968, Dec. 4 .....	381	191	183	1975, Dec. 1 .....	320	238	197	1982, Dec. 1 .....	300	253	251
1969, Dec. 1 .....	394	245	189	1976, Dec. 1 .....	322	238	209	1983, Dec. 1 .....	288	257	248
1971, Feb. 1 .....	402	248	191	1977, Dec. 1 .....	314	238	211	1984, Dec. 1 .....	268	256	255
1971, Dec. 1 .....	318	209	176	1978, Dec. 1 .....	319	252	221	1985, Dec. 1 .....	264	255	255
1972, Dec. 1 .....	325	171	178	1979, Dec. 1 .....	318	257	226				

Source: Broadcasting Publications Inc., Washington, DC, *Broadcasting Cablecasting Yearbook*. (Copyright.)

## NO. 918. PUBLISHING INDUSTRY—SUMMARY: 1977 TO 1984

[In millions of dollars, except as noted. Number in parentheses represents Standard Industrial Classification code; see text, section 13. Based on the censuses of manufactures and the 1983 Survey of Manufactures; for details, see source and Appendix III]

ITEM	NEWSPAPERS (271)			PERIODICALS (272)			BOOKS (273)		
	1977	1982	1984	1977	1982	1984	1977	1982	1984
Establishments, number .....	8,867	8,846	(NA)	2,994	3,328	(NA)	1,744	2,130	(NA)
With 20 or more employees .....	2,147	2,555	(NA)	525	690	(NA)	346	420	(NA)
Employees <sup>1</sup> (1,000) .....	350	402	399	70	94	94	60	67	69
Payroll .....	4,306	6,555	7,367	1,020	1,986	2,232	830	1,327	1,600
Value of receipts .....	13,056	21,276	25,302	6,057	11,478	14,053	4,794	7,740	9,459
Cost of materials .....	3,539	6,006	6,429	2,289	4,668	5,118	1,544	2,420	2,890
Value added by manufacture <sup>2</sup> .....	9,519	15,275	18,872	3,763	6,911	8,944	3,262	5,292	6,723
New capital expenditures .....	478	1,029	1,087	79	195	267	80	174	199
Fixed assets, gross value .....	5,026	8,701	(NA)	725	1,370	(NA)	680	1,109	(NA)
Inventories, yearend .....	382	755	829	350	724	804	992	1,380	1,714

NA Not available. <sup>1</sup> Represents the average number of production workers plus the number of other employees in mid-March. <sup>2</sup> Derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments. This result is then adjusted by the addition of value added by merchandising operations, plus the net change in finished goods and work-in-process inventories between the beginning and the end of the year.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1982*, Industry Reports, series MC82-1-27A, and *1984 Annual Survey of Manufactures*, M84(AS)-1.

### NO. 919. NEWSPAPERS AND PERIODICALS—NUMBER, BY TYPE: 1950 TO 1986

[Prior to 1960, excludes Alaska and Hawaii. Data refer to year of compilation of the Directory cited as the source, i.e., generally to year preceding year shown. See also *Historical Statistics, Colonial Times to 1970*, series R 232-243]

TYPE	1950	1960	1965	1970	1975	1980	1982	1983	1984	1985	1986
<b>Newspapers<sup>1</sup>.....</b>	<b>12,115</b>	<b>11,315</b>	<b>11,383</b>	<b>11,383</b>	<b>11,400</b>	<b>9,620</b>	<b>9,183</b>	<b>9,205</b>	<b>9,151</b>	<b>9,134</b>	<b>9,144</b>
Semiweekly.....	337	324	357	423	506	537	498	508	525	517	495
Weekly.....	9,794	8,979	8,999	8,903	8,824	7,159	6,806	6,855	6,798	6,811	6,857
Daily.....	1,894	1,854	1,843	1,838	1,819	1,744	1,740	1,735	1,711	1,701	1,671
<b>Periodicals<sup>1</sup>.....</b>	<b>6,960</b>	<b>8,422</b>	<b>8,990</b>	<b>9,573</b>	<b>9,657</b>	<b>10,236</b>	<b>10,688</b>	<b>10,952</b>	<b>10,809</b>	<b>11,090</b>	<b>11,328</b>
Weekly.....	1,443	1,580	1,716	1,856	1,918	1,718	1,672	1,626	1,376	1,367	1,383
Semi-monthly <sup>2</sup> .....	416	527	550	589	537	645	689	724	658	801	789
Monthly.....	3,694	4,113	4,195	4,314	4,087	3,885	4,078	4,108	4,096	4,088	4,066
Bi-monthly.....	436	743	876	957	1,009	1,114	1,237	1,307	1,348	1,361	1,387
Quarterly.....	604	895	1,030	1,108	1,093	1,444	1,554	1,627	1,711	1,759	1,985

<sup>1</sup> Includes other not shown separately. <sup>2</sup> Includes fortnightly (every two weeks).

Source: IMS Press, Fort Washington, PA, *The 1986 IMS/Ayer Directory of Publications*, annual. (Copyright.)

### NO. 920. NUMBER AND CIRCULATION OF DAILY AND SUNDAY NEWSPAPERS: 1950 TO 1985

[Prior to 1960, excludes Alaska and Hawaii. Number of newspapers as of the following dates: 1950 and 1960, Oct. 1; 1965, Jan. 1; 1970-1985, Feb. 1 of the following year. Circulation figures as of Sept. 30, except 1950-1965 as of Oct. 1. For English language newspapers only. See also *Historical Statistics, Colonial Times to 1970*, series R 224-231]

TYPE	1950	1960	1965	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
<b>NUMBER OF NEWSPAPERS</b>													
Daily: Total <sup>1</sup> .....	1,772	1,763	1,751	1,748	1,756	1,756	1,763	1,745	1,730	1,711	1,701	1,688	1,676
Morning.....	322	312	320	334	339	355	382	387	408	434	446	458	492
Evening.....	1,450	1,459	1,444	1,429	1,436	1,419	1,405	1,388	1,352	1,310	1,284	1,257	1,220
Sunday.....	549	563	562	566	639	696	720	736	755	768	772	783	798
<b>CIRCULATION (mil.)</b>													
Daily: Total <sup>1</sup> .....	53.8	58.9	60.4	62.1	60.7	62.0	62.2	61.4	62.5	62.6	63.1	62.8	62.8
Morning.....	21.3	24.0	24.1	25.9	25.5	27.7	28.6	29.4	30.6	33.2	33.6	35.4	35.4
Evening.....	32.6	34.9	36.3	36.2	35.2	34.3	33.6	32.8	30.9	29.3	29.8	27.7	26.4
Sunday.....	46.8	47.7	48.6	49.2	51.1	54.0	54.4	54.7	55.2	56.3	56.7	57.5	58.8

<sup>1</sup> Beginning 1960, all-day newspapers are counted in both morning and evening columns but only once in total. Circulation is divided equally between morning and evening.

Source: Editor & Publisher Co. Inc., New York, NY, *Editor & Publisher International Year Book*, annual. (Copyright.)

### NO. 921. NUMBER AND CIRCULATION OF DAILY NEWSPAPERS, BY POPULATION—SIZE CLASS OF CITY: 1960 TO 1985

[Number of newspapers for 1960 as of Oct. 1; thereafter, as of Feb. 1 of the following year. Circulation as of Sept. 30, except 1960 as of Oct. 1. For English language newspapers only. See table 35 for number of cities by population size]

TYPE OF DAILY AND POPULATION—SIZE CLASS	NUMBER <sup>1</sup>						NET PAID CIRCULATION <sup>1</sup> (1,000)					
	1960	1970	1975	1980	1984	1985	1960	1970	1975	1980	1984	1985
<b>Morning dailies, total.....</b>	<b>312</b>	<b>334</b>	<b>339</b>	<b>387</b>	<b>458</b>	<b>482</b>	<b>24,059</b>	<b>25,934</b>	<b>25,491</b>	<b>29,413</b>	<b>35,424</b>	<b>36,361</b>
In cities of—												
1,000,001 or more.....	16	15	14	20	14	22	7,935	7,667	7,159	8,795	4,641	9,367
500,001 to 1,000,000.....	22	26	25	27	24	24	4,638	5,747	5,581	5,705	6,809	6,897
100,001 to 500,000.....	85	91	89	99	128	121	7,613	8,169	7,836	8,996	16,876	12,167
50,001 to 100,000.....	64	65	69	75	83	87	2,278	2,220	2,619	2,973	3,402	3,653
25,001 to 50,000.....	54	59	67	64	74	83	949	1,317	1,422	1,701	1,984	2,145
Less than 25,000.....	71	78	75	102	135	145	648	814	874	1,243	1,897	2,099
<b>Evening dailies, total.....</b>	<b>1,459</b>	<b>1,429</b>	<b>1,436</b>	<b>1,388</b>	<b>1,257</b>	<b>1,220</b>	<b>34,911</b>	<b>36,231</b>	<b>35,166</b>	<b>32,788</b>	<b>27,657</b>	<b>26,407</b>
In cities of—												
1,000,001 or more.....	17	12	12	11	7	8	5,021	4,716	4,156	2,984	1,794	2,169
500,001 to 1,000,000.....	26	24	24	23	15	14	5,375	4,807	4,573	4,101	1,949	1,628
100,001 to 500,000.....	116	129	127	123	112	102	9,676	10,034	8,918	8,178	7,857	6,987
50,001 to 100,000.....	158	178	175	156	133	127	4,501	5,221	5,379	4,896	4,177	3,942
25,001 to 50,000.....	256	250	248	246	236	229	4,345	4,766	4,898	5,106	4,789	4,606
Less than 25,000.....	886	836	850	829	754	740	5,993	6,687	7,242	7,523	7,087	7,075

<sup>1</sup> All-day newspapers are counted in both morning and evening columns; circulation is divided equally between morning and evening.

Source: Editor & Publisher Co. Inc., New York, NY, *Editor & Publisher International Year Book*, annual. (Copyright.)

## No. 922. DAILY AND SUNDAY NEWSPAPERS—NUMBER AND CIRCULATION, BY STATE: 1985

[Number of newspapers as of Feb. 1 of the following year. Circulation figures as of Sept. 30. For English language newspapers only]

STATE	DAILY			SUNDAY		STATE	DAILY			SUNDAY	
	Number	Circulation <sup>1</sup>		Number	Net paid circulation (1,000)		Number	Circulation <sup>1</sup>		Number	Net paid circulation (1,000)
		Net paid (1,000)	Per capita <sup>2</sup>					Net paid (1,000)	Per capita <sup>2</sup>		
<b>Total.....</b>	<b>1,676</b>	<b>62,766</b>	<b>.26</b>	<b>798</b>	<b>58,826</b>	Missouri.....	49	1,483	.30	19	1,215
Alabama.....	27	746	.19	19	737	Montana.....	11	198	.24	8	197
Alaska.....	8	137	.26	4	142	Nebraska.....	19	477	.30	7	436
Arizona.....	19	676	.21	11	693	Nevada.....	7	235	.25	4	283
Arkansas.....	33	508	.22	17	525	New Hampshire.....	9	214	.21	3	107
California.....	115	6,085	.23	59	5,966	New Jersey.....	26	1,702	.23	17	1,820
Colorado.....	29	954	.30	11	1,162	New Mexico.....	20	293	.20	13	267
Connecticut.....	24	899	.28	11	806	New York.....	73	7,840	.44	32	5,898
Delaware.....	3	146	.23	2	161	North Carolina.....	54	1,387	.22	29	1,301
District of Columbia.....	3	2,177	3.48	1	1,050	North Dakota.....	10	192	.28	6	178
Florida.....	50	2,875	.25	34	3,210	Ohio.....	90	2,835	.26	31	2,764
Georgia.....	36	1,072	.18	16	1,152	Oklahoma.....	52	822	.25	43	904
Hawaii.....	6	237	.23	5	245	Oregon.....	20	637	.24	10	646
Idaho.....	12	210	.21	8	217	Pennsylvania.....	94	3,398	.29	22	3,518
Illinois.....	72	2,729	.24	24	2,739	Rhode Island.....	7	305	.31	3	299
Indiana.....	74	1,570	.29	19	1,257	South Carolina.....	17	626	.19	9	585
Iowa.....	38	779	.27	11	763	South Dakota.....	12	168	.24	4	129
Kansas.....	46	558	.23	18	498	Tennessee.....	29	992	.21	16	1,048
Kentucky.....	25	725	.19	13	648	Texas.....	112	3,524	.22	87	4,318
Louisiana.....	26	796	.18	18	881	Utah.....	6	283	.17	6	313
Maine.....	9	267	.25	2	172	Vermont.....	8	124	.23	3	87
Maryland.....	16	748	.17	5	681	Virginia.....	37	1,193	.21	15	928
Massachusetts.....	46	2,127	.37	11	1,725	Washington.....	28	1,136	.26	17	1,108
Michigan.....	52	2,495	.27	15	2,468	West Virginia.....	23	453	.23	10	399
Minnesota.....	26	927	.22	12	1,032	Wisconsin.....	35	1,185	.25	12	998
Mississippi.....	23	404	.15	12	329	Wyoming.....	10	101	.20	4	76

<sup>1</sup> Circulation figures based on the principal community served by a newspaper which is not necessarily the same location as the publisher's office. <sup>2</sup> Per capita based on total resident population estimated as of July 1, 1985.

Source: Editor & Publisher Co., Inc., New York, NY, *Editor & Publisher International Year Book*, annual (copyright).

## No. 923. COPYRIGHT REGISTRATION, BY SUBJECT MATTER: 1980 TO 1985

[In thousands. For years ending Sept. 30. Comprises claims to copyright registered for both U.S. and foreign works. See also *Historical Statistics, Colonial Times to 1970*, series W 62-95]

SUBJECT MATTER OF COPYRIGHT	1980	1984	1985	SUBJECT MATTER OF COPYRIGHT	1980	1984	1985
<b>Total</b> .....	<b>464.7</b>	<b>502.7</b>	<b>539.8</b>	Renewals.....	33.0	37.3	43.8
Monographs <sup>1</sup> .....	119.2	147.2	154.5	Musical works.....	120.2		
Machine readable works.....	1.9			Dramatic works, including any accom-			
Semiconductor chip products.....	(x)	(x)	.9	ppanying music.....	8.0	140.2	147.9
Serials.....	117.9	113.6	120.0	Choreography and pantomimes.....	(z)		
Sound recordings.....	12.8	21.6	22.7	Motion pictures and filmstrips.....	8.5		
				Works of the visual arts <sup>2</sup> .....	42.8	42.8	50.0

X Not applicable. Z Less than 50. <sup>1</sup> Includes computer software. <sup>2</sup> Two-dimensional works of fine and graphic art, including prints and art reproductions; sculptural works; technical drawings and models; photographs; commercial prints and labels; works of applied arts, cartographic works and multimedia works.

Source: The Library of Congress, *Annual Report*.

## No. 924. ADVERTISING—ESTIMATED EXPENDITURES: 1950 TO 1985

[In millions of dollars. See also *Historical Statistics, Colonial Times to 1970*, series T 444-446]

YEAR	Total	National	Local	YEAR	Total	National	Local	YEAR	Total	National	Local
1950.....	5,700	3,260	2,440	1973.....	24,980	13,700	11,280	1980.....	53,550	29,815	23,735
1955.....	9,150	5,380	3,770	1974.....	26,620	14,700	11,920	1981.....	60,430	33,890	26,540
1960.....	11,960	7,305	4,655	1975.....	27,900	15,200	12,700	1982.....	66,580	37,785	28,795
1965.....	15,250	9,340	5,910	1976.....	33,300	18,355	14,945	1983.....	75,850	42,525	33,325
1970.....	19,550	11,350	8,200	1977.....	37,440	20,595	16,845	1984.....	87,820	49,690	38,130
1971.....	20,700	11,755	8,945	1978.....	43,330	23,720	19,610	1985.....	94,750	53,355	41,395
1972.....	23,210	12,980	10,230	1979.....	46,760	26,695	22,065				

Source: McCann-Erickson, Inc., New York, NY, Compiled for Crain Communications, Inc. in *Advertising Age* (copyright).

# NO. 925. ADVERTISING—INDEXES OF NATIONAL ADVERTISING EXPENDITURES, BY MEDIUM: 1960 TO 1985

[1967=100. Based on the average monthly expenditure for those major media which give national coverage. See also *Historical Statistics, Colonial Times to 1970*, series T 472-484]

MEDIUM	1960	1965	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
<b>General Index</b> .....	<b>67</b>	<b>90</b>	<b>112</b>	<b>143</b>	<b>236</b>	<b>269</b>	<b>298</b>	<b>333</b>	<b>369</b>	<b>414</b>	<b>486</b>	<b>503</b>
Network television.....	56	85	114	158	273	316	353	383	427	482	586	569
Spot television.....	53	90	125	164	261	291	330	378	441	485	555	608
Magazines.....	73	93	104	118	209	236	253	284	298	340	396	414
Weeklies.....	81	94	95	94	178	204	218	245	255	294	342	353
Women's.....	65	95	107	130	238	259	277	302	321	374	429	459
Monthlies.....	64	90	120	155	246	280	304	347	368	404	480	501
Newspapers.....	92	93	105	131	182	209	232	267	290	323	364	396

Source: McCann-Erickson, Inc., New York, NY. Compiled for Grain Communications, Inc. In *Advertising Age* (copyright).

## NO. 926. ADVERTISING—ESTIMATED EXPENDITURES, BY MEDIUM: 1970 TO 1985

[In millions of dollars, except percent. See text, section 18 for a discussion of types of advertising. See also *Historical Statistics, Colonial Times to 1970*, series R 108-109, R 123-126, and T 444-471]

MEDIUM	EXPENDITURES								PERCENT			
	1970	1975	1980	1981	1982	1983	1984	1985, prel.	1970	1980	1984	1985, prel.
<b>Total</b> .....	<b>19,550</b>	<b>27,900</b>	<b>53,550</b>	<b>60,430</b>	<b>66,580</b>	<b>75,850</b>	<b>87,820</b>	<b>94,750</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
National.....	11,350	15,200	29,815	33,890	37,795	42,525	49,680	53,355	58.1	55.7	56.6	56.3
Local.....	8,200	12,700	23,735	26,540	28,795	33,325	38,130	41,395	41.9	44.3	43.4	43.7
Newspapers.....	5,704	8,234	14,794	16,529	17,694	20,582	23,522	25,170	29.2	27.6	26.8	26.5
National.....	891	1,109	1,963	2,259	2,482	2,734	3,081	3,352	4.6	3.7	3.5	3.5
Local.....	4,813	7,125	12,831	14,269	15,242	17,848	20,441	21,818	24.6	24.0	23.3	23.0
Magazines.....	1,292	1,465	3,149	3,533	3,710	4,233	4,932	5,155	6.6	5.9	5.6	5.4
Weeklies.....	617	612	1,418	1,598	1,659	1,917	2,224	2,297	3.2	2.6	2.5	2.4
Women's.....	301	368	782	853	904	1,056	1,209	1,294	1.5	1.5	1.4	1.4
Monthlies.....	374	485	949	1,082	1,147	1,260	1,499	1,554	1.9	1.8	1.7	1.6
Farm publications.....	62	74	130	148	148	183	181	186	.3	.2	.2	.2
Television.....	3,596	5,263	11,424	12,811	14,566	16,542	19,670	20,770	18.4	21.3	22.4	21.9
Network.....	1,658	2,306	5,130	5,575	6,210	7,017	8,526	8,285	8.5	9.6	9.7	8.8
Spot.....	1,234	1,623	3,269	3,746	4,364	4,827	5,488	6,004	6.3	6.1	6.2	6.3
Cable (National).....	(NA)	(NA)	50	105	195	303	492	637	(NA)	.1	.6	.7
Local.....	704	1,334	2,967	3,368	3,765	4,345	5,084	5,714	3.6	5.5	5.8	6.0
Cable (Local).....	(NA)	(NA)	8	17	32	50	80	130	(NA)	(Z)	.1	.1
Radio.....	1,308	1,980	3,702	4,230	4,670	5,210	5,817	6,490	6.7	6.9	6.6	6.9
Network.....	56	83	183	230	255	296	320	365	.3	.3	.4	.4
Spot.....	371	436	779	879	923	1,038	1,197	1,335	1.9	1.5	1.3	1.4
Local.....	881	1,461	2,740	3,121	3,492	3,876	4,300	4,780	4.5	5.1	4.9	5.1
Direct mail.....	2,766	4,124	7,596	8,944	10,319	11,795	13,800	15,500	14.1	14.2	15.7	18.4
Business papers.....	740	919	1,674	1,841	1,876	1,990	2,270	2,375	3.8	3.1	2.6	2.5
Outdoor.....	234	395	578	650	721	794	872	945	1.2	1.1	1.0	1.0
Miscellaneous.....	3,848	5,506	10,503	11,747	12,876	14,541	16,756	18,159	19.7	19.6	19.1	19.2

NA Not available. Z Less than .05.

Source: McCann-Erickson, Inc., New York, NY. Compiled for Grain Communications, Inc. In *Advertising Age* (copyright). Percentages derived by U.S. Bureau of the Census.

## NO. 927. MAGAZINE ADVERTISING—EXPENDITURES, BY PRODUCT TYPE: 1970 TO 1985

[In millions of dollars, except percent. Space cost based on one-time rate; special rates used where applicable. Year-to-year data not strictly comparable, as a few minor publications are added or deleted]

TYPE OF PRODUCT	1970	1975	1980	1981	1982	1983	1984	1985	PERCENT DISTRIBUTION		
									1970	1980	1985
<b>Expenditures</b> .....	<b>1,193</b>	<b>1,336</b>	<b>2,846</b>	<b>3,223</b>	<b>3,421</b>	<b>3,939</b>	<b>4,668</b>	<b>4,920</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Apparel, footwear, and accessories.....	51	47	112	141	154	206	240	248	4.3	3.9	5.0
Automotive <sup>1</sup> .....	97	102	230	290	393	405	473	549	8.1	8.0	11.1
Beer, wine, and liquor.....	98	101	239	252	268	243	230	239	8.2	8.4	4.9
Computers, office equipment, stationery.....	32	29	79	103	141	194	321	248	2.7	2.8	5.1
Consumer services <sup>2</sup> .....	74	102	180	206	233	329	411	464	6.2	6.7	9.4
Drugs and remedies.....	38	34	79	88	89	105	129	133	3.2	2.8	2.7
Food and food products.....	86	87	199	213	240	263	289	342	7.2	7.0	7.0
Household equipment and supplies.....	34	25	65	82	66	81	98	100	2.8	2.3	2.0
Household furnishings.....	38	31	73	83	81	94	94	83	3.2	2.0	1.7
Jewelry, optical goods, camera.....	30	34	79	89	80	95	107	100	2.5	2.8	2.0
Mail orders.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	292	322	(NA)	(NA)	6.6
Publishing and media.....	38	66	146	149	156	182	159	179	3.2	5.1	3.6
Retail.....	53	(NA)	(NA)	(NA)	(NA)	(NA)	128	123	4.4	(NA)	2.5
Smoking materials.....	65	144	280	314	358	396	423	375	5.4	10.2	7.8
Toiletries and toilet goods.....	119	108	206	230	241	279	334	384	10.0	7.2	7.8
Travel, hotels, and resorts.....	54	65	123	137	153	174	212	245	4.5	4.3	5.0
All other.....	289	363	736	844	838	891	728	787	24.2	25.9	16.0

NA Not available. <sup>1</sup> Includes accessories and equipment. <sup>2</sup> Includes business services.

Source: Magazine Publishers Association, Inc., New York, NY, from data compiled by Publishers Information Bureau, Inc.

## NO. 928. TELEVISION—EXPENDITURES FOR NETWORK ADVERTISING: 1980 TO 1985

(In millions of dollars. See text, section 18 for a definition of network advertising)

TYPE OF PRODUCT	1980	1983	1984	1985	TYPE OF PRODUCT	1980	1983	1984	1985
<b>Expenditures.....</b>	<b>5,147</b>	<b>7,042</b>	<b>8,555</b>	<b>8,313</b>	Horticulture.....	15	20	29	30
Apparel, footwear, and accessories.....	131	199	237	161	Household equipment, supplies, and furnishings.....	225	238	266	275
Automotive.....	529	745	808	848	Insurance.....	74	97	109	99
Beer and wine.....	242	358	448	428	Investment brokers.....	20	46	66	60
Building material, equipment, fixtures.....	59	68	105	97	Jewelry and cameras <sup>1</sup> .....	119	143	140	129
Computers, office equipment, and stationery.....	57	260	374	249	Laundry soaps, cleansers, and polishes.....	306	353	367	397
Confectionery, soft drinks.....	281	307	393	388	Movies.....	103	133	167	138
Consumer services.....	178	213	389	303	Pet products.....	144	160	175	175
Dept. and discount stores.....	94	171	215	161	Proprietary medicines.....	430	575	670	700
Food and food products.....	844	1,064	1,365	1,502	Publishing and media.....	34	82	58	50
Freight and industrial development.....	7	50	53	40	Restaurants and drive-ins.....	132	213	352	416
Gas, lubricants, etc.....	71	42	56	49	Tobacco products and supplies.....	8	8	10	6
Home electronics equipment.....	50	158	79	36	Toiletries and toilet goods.....	765	921	978	955
					Toys and sporting goods.....	93	113	165	152
					Travel, hotels, and resorts.....	53	79	90	80
					All other.....	63	228	411	389

<sup>1</sup> Includes optical goods.

## NO. 929. TELEVISION—ESTIMATED TIME CHARGES FOR SPOT ADVERTISING: 1980 TO 1985

(In millions of dollars. Data represent activity in the top 75 markets monitored by Broadcast Advertisers Reports, Inc. (BAR), covering approximately 304 stations. See text, section 18 for a definition of types of advertising)

TYPE OF PRODUCT	1980	1983	1984	1985	TYPE OF PRODUCT	1980	1983	1984	1985
<b>Estimated time charges.....</b>	<b>2,496</b>	<b>3,676</b>	<b>4,164</b>	<b>4,504</b>	Home electronics equipment.....	73	120	76	67
Agriculture and farming.....	15	19	19	17	Horticulture.....	35	30	39	37
Apparel, footwear, and accessories.....	105	101	113	95	Household equipment, supplies, and furnishings.....	133	190	215	217
Automotive.....	228	412	583	683	Insurance.....	34	57	67	88
Beer and wine.....	156	200	204	218	Jewelry, optical goods, and cameras.....	55	54	70	68
Building material, equipment, and fixtures.....	47	55	56	58	Laundry soaps, polishes.....	111	166	144	175
Computers, office equipment, and stationery.....	15	64	63	25	Pet products.....	33	56	56	60
Confectionery, soft drinks.....	212	327	335	355	Proprietary medicines.....	93	133	148	148
Consumer services.....	83	173	222	262	Publishing and media.....	78	115	127	147
Food and food products.....	507	776	885	927	Tobacco products, suppliers.....	8	11	14	14
Freight and industrial development.....	5	32	21	36	Toiletries and toilet goods.....	223	242	263	267
Gasoline, lubricants, etc.....	50	67	104	102	Toys and sporting goods.....	104	101	141	211
					Travel, hotels, and resorts.....	76	139	183	187
					All other.....	17	16	36	40

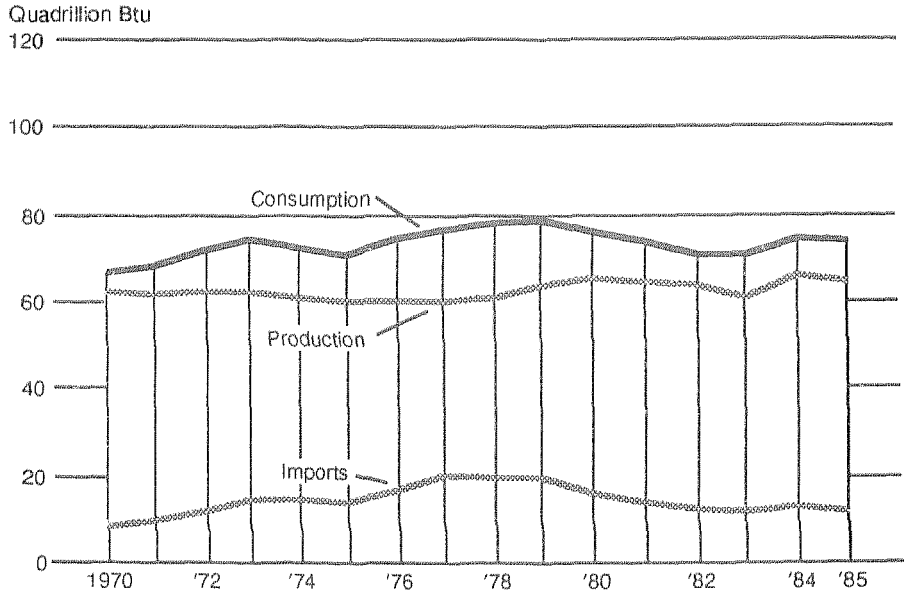
## NO. 930. TELEVISION—EXPENDITURES FOR RETAIL/LOCAL ADVERTISING: 1980 TO 1985

(In millions of dollars. See headline, table 929)

TYPE OF PRODUCT	1980	1983	1984	1985	TYPE OF PRODUCT	1980	1983	1984	1985
<b>Expenditures.....</b>	<b>1,983</b>	<b>2,979</b>	<b>3,485</b>	<b>3,699</b>	Home building contractors building supplies.....	35	65	77	91
Amusements, entertainment.....	68	99	104	121	Hotels, resorts, U.S.....	18	42	58	62
Appliance stores, repair.....	38	75	89	122	Investment brokers.....	7	27	28	29
Auto repair, service stations.....	28	53	61	73	Jewelry stores.....	19	25	24	25
Auto supply, accessory stores.....	12	35	36	41	Legal services.....	5	18	26	38
Auto, truck dealers.....	99	173	257	311	Leisure time stores and services.....	42	82	84	107
Banks, S&L associations.....	141	166	198	195	Loan, mortgage companies.....	12	20	20	25
Builders, real estate.....	26	34	42	41	Mail order, catalog showrooms.....	13	21	22	23
					Medical, dental services.....	13	41	62	87
Carpet, floor covering stores.....	24	34	36	40	Movies.....	102	98	86	103
Clothing stores.....	46	66	73	82	Newspapers.....	15	22	29	32
Department stores.....	131	164	168	186	Optical services, supplies.....	14	17	19	28
Discount department stores.....	74	79	93	115	Political.....	70	24	104	22
Drug stores.....	26	55	57	67	Radio, cable TV.....	69	127	129	134
Education services.....	17	36	49	70	Rental services (non-auto).....	15	29	34	38
Food stores, supermarkets.....	149	229	244	259	Restaurants, drive-ins.....	288	496	578	672
Furniture stores.....	111	144	165	187	Shoe stores.....	27	32	38	37
Gas, electric, water companies.....	16	27	33	38	Shopping centers, ass'ns.....	13	18	20	20
Hardware stores.....	19	23	23	20	Sport, hobby, toy stores.....	23	42	44	41
Health clubs, reducing salons.....	21	29	32	39	All other.....	137	210	241	278

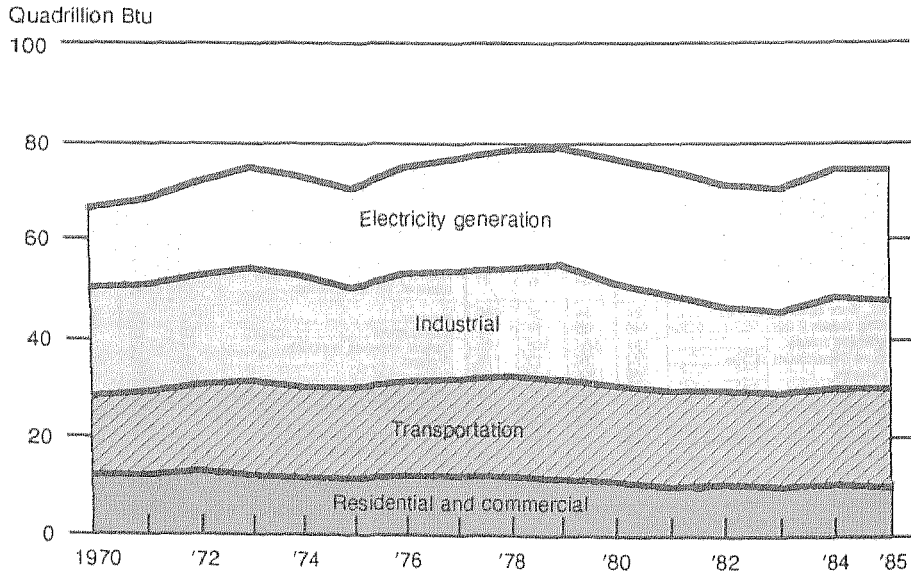
Source of tables 928-930: Television Bureau of Advertising, Inc., New York, NY. Data compiled by Broadcast Advertisers Reports, Inc., New York, NY in the top 75 markets.

Figure 19.1  
Energy Production, Consumption and Imports: 1970 to 1985

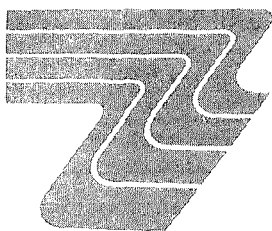


Source: Chart prepared by U.S. Bureau of the Census. For data, see table 933.

Figure 19.2  
Primary Energy Resources – Consumption by Major Consumer Group: 1970 to 1985



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 938.



This section presents statistics on fuel resources, energy production and consumption, electric energy, hydropower, nuclear power, solar energy, wood energy and the electric and gas utility industries. The principal sources are the U.S. Department of Energy's Energy Information Administration (EIA), the Edison Electric Institute, Washington, DC, and the American Gas Association, Arlington, VA. The Department of Energy was created in October 1977 and assumed and centralized the responsibilities of all or part of several agencies including the Federal Power Commission (FPC), the U.S. Bureau of Mines, the Federal Energy Administration, and the U.S. Energy Research and Development Administration. For additional data on transportation, see Section 21; on fuels, see Section 26; and on energy-related housing characteristics, see Section 27.

The EIA, in its *Annual Energy Review*, provides statistics and trend data on energy supply, demand, and prices. Information is included on petroleum and natural gas, coal, electricity, hydropower, nuclear power, and solar and geothermal energy. Among its annual reports are *Annual Energy Review*, *Electric Power Annual*, *Natural Gas Annual*, *Petroleum Supply Annual*, *State Energy Data Report*, *Energy Price and Expenditure Report*, *Financial Statistics of Selected Electric Utilities*, *Historical Capital Costs and Annual Production Expenses*, *Residential Energy Consumption Survey*, *Performance Profiles of Major Energy Producers*, *Typical Electric Bills*, *Annual Energy Outlook*, and *International Energy Annual*. These various publications contain State, national, and international data on production of electricity, net summer capability of generating plants, fuels used in energy production, energy sales and consumption, hydroelectric power, construction costs and production expenses of power plants, and depreciation practices. The EIA also issues the *Monthly Energy Review*, which presents current supply, disposition, and price data, and separate weekly and monthly publications on petroleum, coal, natural gas, and electric power. Data on residential energy consumption, expenditures, and conservation activities are available from EIA's Residential Energy Consumption Survey and are published in *Residential Energy Consumption Survey: Consumption and Expenditures*, and *Residential Energy Consumption Survey: Conservation*, and several other reports.

The Edison Electric Institute's monthly bulletin and annual *Statistical Year Book of the Electric Utility Industry for the Year* contain data on the distribution of electric energy by public utilities; information on the electric power supply, expansion of electric generating facilities, and the manufacture of heavy electric power equipment is presented in the annual *Year End Summary of the Electric Power Situation in the United States*. The American Gas Association, in its monthly and quarterly bulletins and its yearbook, *Gas Facts*, presents data on gas utilities, including sales, revenues, customers, prices, and other financial and operating statistics. A wide range of petroleum statistics are provided in the American Petroleum Institute publication *Basic Petroleum Data Book*.

**Btu conversion factors.**—Various energy sources are converted from original units (e.g., short tons, cubic feet, barrels, kilowatt-hours) to the thermal equivalent using British thermal units (Btu). A Btu is the amount of energy required to raise the temperature of 1 pound of water 1 degree Fahrenheit at or near 39.2 degrees F. Factors are calculated annually from the latest final annual data available; some are revised as a result. The following list provides conversion factors used in 1984 for production and consumption, in that order, for various fuels: Petroleum, 5,800 and 5,395 mil. Btu per barrel; total coal, 22,014 and 21,557 mil. Btu per short ton; and natural gas, 1,031 and 1,031 Btu per cubic foot. The factors for the production of nuclear power and geothermal power were 10,800 and 21,303 Btu per kilowatt-hour, respectively. The fossil fuel steam-electric power plant generation factor of 10,369 Btu per kilowatt-hour was used for hydroelectric power generation and for wood and waste, wind, photovoltaic, and solar thermal energy consumed at electric utilities.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States*, *Colonial Times* to 1970. See Appendix IV.

**Statistics for States and metropolitan statistical areas (MSAs).**—Data for States and MSAs may also be found in *State and Metropolitan Area Data Book 1986*. For cross-references, see Appendix V.

## No. 931. TOTAL HORSEPOWER OF ALL PRIME MOVERS: 1950 TO 1985

[In millions, except percent. As of January, except as noted. Prior to 1960, excludes Alaska and Hawaii, except as noted. Prime movers are mechanical engines and turbines, and work animals, which originally convert fuels or force (as wind or falling water) into work and power. Electric motors, which obtain their power from prime movers, are excluded to avoid duplication. See also *Historical Statistics, Colonial Times to 1970*, series S 1-14]

YEAR	Total horse- power	AUTOMOTIVE <sup>1 2</sup>		NONAUTOMOTIVE							
		Total	Per- cent of total	Total	Facto- ries <sup>3</sup>	Mines <sup>3</sup>	Rail- roads <sup>4</sup>	Mer- chant ships and sailing vessels	Farms	Elec- tric cen- tral sta- tions <sup>2</sup>	Air- craft <sup>4 5</sup>
1950.....	4,888	4,404	90.5	464	33	22	111	<sup>6</sup> 23	165	88	<sup>6</sup> 22
1955.....	7,158	6,632	92.7	526	36	31	60	<sup>6</sup> 24	212	138	<sup>6</sup> 26
1960.....	11,008	10,387	94.2	641	42	35	47	24	240	217	37
1965.....	15,096	14,306	94.8	790	48	40	44	24	272	307	55
1970.....	20,408	19,325	94.7	1,083	54	45	54	22	290	435	183
1972.....	22,913	21,736	94.9	1,175	57	46	57	21	305	508	181
1973.....	24,262	23,029	94.9	1,233	58	46	57	20	308	562	182
1974.....	24,516	23,224	94.7	1,292	59	46	61	21	315	605	185
1975.....	25,100	23,752	94.6	1,348	60	47	62	22	318	654	185
1976.....	25,732	24,339	94.6	1,393	61	47	64	22	324	692	184
1977.....	26,489	25,025	94.5	1,444	62	47	62	23	328	728	194
1978.....	27,379	25,892	94.6	1,487	63	48	64	25	<sup>7</sup> 335	754	198
1979.....	28,162	26,617	94.5	1,545	63	48	62	26	342	803	201
1980.....	28,922	27,362	94.6	1,564	64	48	63	28	345	806	210
1981.....	29,507	27,909	94.6	1,598	64	48	65	29	345	835	212
1982.....	30,495	28,852	94.6	1,643	64	48	64	29	352	854	232
1983.....	31,337	29,662	94.7	1,675	64	47	62	29	356	877	240
1984.....	31,819	30,117	94.7	1,702	65	47	61	30	359	886	254
1985.....	32,529	30,792	94.7	1,737	65	47	58	29	358	912	268

<sup>1</sup> Includes passenger cars, trucks, buses, and motorcycles.

<sup>2</sup> As of July 1.

<sup>3</sup> Beginning 1965, data are estimates.

<sup>4</sup> Beginning 1965, not strictly comparable with earlier years. <sup>5</sup> Includes private planes and commercial airlines. <sup>6</sup> Includes Alaska and Hawaii.

<sup>7</sup> Includes estimates of about 3.0 million hp in work animals and 30,000 in windmills.

Source: 1950 and 1955, The Twentieth Century Fund, New York, NY, J.F. Dewhurst and Associates, *America's Needs and Resources, A New Survey*, and John A. Waring, *Transactions of Canadian Sectional Meeting, World Power Conference, 1958*.

Beginning 1960, John A. Waring, Arlington, VA, unpublished estimates.

## No. 932. ENERGY PRODUCTION AND CONSUMPTION, BY MAJOR SOURCE: 1960 TO 1985

[Btu=British thermal unit. For Btu conversion factors, see text, section 19. See also *Historical Statistics, Colonial Times to 1970*, series M 76-92]

YEAR	Total production (quad. Btu)	PERCENT OF PRODUCTION				Total consumption (quad. Btu)	PERCENT OF CONSUMPTION				Consumption/production ratio
		Coal	Petroleum <sup>1</sup>	Natural gas <sup>2</sup>	Other <sup>3</sup>		Coal	Petroleum <sup>1</sup>	Natural gas <sup>2</sup>	Other <sup>3</sup>	
1960.....	41.5	26.1	36.0	34.0	3.9	43.8	22.5	45.5	28.3	3.8	1.06
1961.....	42.0	24.9	36.2	34.9	4.0	44.5	21.6	45.5	29.1	3.8	1.06
1962.....	43.6	25.0	35.6	35.1	4.2	46.5	21.3	45.2	29.5	4.0	1.07
1963.....	45.9	25.8	34.8	35.4	4.0	48.3	21.5	44.9	29.8	3.7	1.05
1964.....	47.7	26.2	33.9	35.8	4.0	50.5	21.7	44.2	30.3	3.8	1.06
1965.....	49.3	26.5	33.5	35.8	4.3	52.7	22.0	44.1	29.9	4.0	1.07
1966.....	52.2	25.8	33.7	36.4	4.1	55.7	21.8	43.8	30.5	3.8	1.07
1967.....	55.0	25.1	33.9	36.5	4.4	57.6	20.7	43.9	31.2	4.2	1.05
1968.....	56.8	24.0	34.0	37.6	4.4	61.0	20.2	44.2	31.5	4.1	1.07
1969.....	59.1	23.5	33.1	38.7	4.8	64.2	19.3	44.1	32.2	4.4	1.09
1970.....	62.1	23.5	32.9	38.9	4.7	66.4	18.5	44.4	32.8	4.3	1.07
1971.....	61.3	21.5	32.7	40.5	5.3	67.9	17.1	45.0	33.1	4.8	1.11
1972.....	62.4	22.6	32.1	39.7	5.6	71.3	16.9	46.2	31.9	5.0	1.14
1973.....	62.1	22.5	31.4	39.9	6.2	74.3	17.5	46.9	30.3	5.3	1.20
1974.....	60.8	23.1	30.5	38.9	7.4	72.5	17.5	46.1	30.0	6.5	1.19
1975.....	59.8	25.0	29.6	36.8	8.6	70.5	17.9	46.4	28.3	7.4	1.18
1976.....	59.9	26.1	28.8	36.4	8.6	74.4	18.3	47.3	27.4	7.1	1.24
1977.....	60.2	26.2	29.0	36.4	8.5	76.3	18.2	48.7	26.1	7.0	1.27
1978.....	61.1	24.4	30.2	35.6	9.9	78.1	17.6	48.6	25.6	8.1	1.28
1979.....	63.8	27.5	28.4	35.0	9.1	78.9	19.1	47.1	26.2	7.7	1.24
1980.....	64.8	28.7	28.2	34.2	8.9	76.0	20.3	45.0	26.8	7.8	1.17
1981.....	64.4	28.5	28.2	34.2	9.1	74.0	21.5	43.2	26.9	8.4	1.15
1982.....	63.9	29.2	28.7	32.0	10.2	70.8	21.6	42.7	26.1	9.6	1.11
1983.....	61.2	28.2	30.1	30.6	11.2	70.5	22.6	42.6	24.6	10.2	1.15
1984.....	65.9	30.0	28.6	30.7	10.7	74.1	23.0	41.9	25.0	10.1	1.13
1985, prei.....	64.7	30.0	29.2	29.6	11.3	73.8	23.7	41.8	24.1	10.5	1.14

<sup>1</sup> Production includes crude oil and lease condensate. Consumption includes domestically produced crude oil, natural gas liquids, and lease condensate, plus imported crude oil and products. <sup>2</sup> Production includes natural gas liquids; consumption excludes natural gas liquids. <sup>3</sup> Comprised of hydropower, nuclear power, geothermal energy and other.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

## NO. 933. ENERGY SUPPLY AND DISPOSITION, BY TYPE OF FUEL: 1960 TO 1985

[In quadrillion British thermal units (Btu), except percent. For Btu conversion factors, see text, section 19]

TYPE OF FUEL	1960	1970	1973	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985, prel.
Production.....	41.5	62.1	62.1	59.9	59.9	60.2	61.1	63.8	64.8	64.4	63.9	61.2	65.9	64.7
Crude oil <sup>1</sup> .....	14.9	20.4	19.5	17.7	17.3	17.5	18.4	18.1	18.2	18.1	18.3	18.4	18.8	18.9
Natural gas.....														
liquids.....	1.5	2.5	2.6	2.4	2.3	2.3	2.2	2.3	2.3	2.3	2.2	2.2	2.3	2.3
Natural gas <sup>2</sup> .....	12.7	21.7	22.2	19.6	19.5	19.6	19.5	20.1	19.9	19.7	18.3	16.5	17.9	16.9
Coal.....	10.8	14.6	14.0	15.0	15.7	15.8	14.9	17.5	18.6	18.4	18.6	17.3	19.7	19.4
Nuclear power.....	(z)	.2	.9	1.9	2.1	2.7	3.0	2.8	2.7	3.0	3.1	3.2	3.5	4.1
Hydropower.....	1.6	2.6	2.9	3.2	3.0	2.3	2.9	2.9	2.9	2.8	3.3	3.5	3.4	3.0
Geothermal and other.....	(z)	(z)	(z)	.1	.1	.1	.1	.1	.1	.1	.1	.1	.2	.2
Net trade <sup>3</sup> .....	-2.7	-5.7	-12.7	-11.8	-14.6	-18.0	-17.3	-16.4	-12.2	-9.6	-7.5	-8.3	-9.0	-7.8
Exports.....	1.5	2.7	2.1	2.4	2.2	2.1	1.9	2.9	3.7	4.3	4.6	3.7	3.8	4.2
Coal.....	1.0	1.9	1.4	1.8	1.6	1.4	1.1	1.8	2.4	2.9	2.8	2.0	2.2	2.4
Imports <sup>4</sup> .....	4.2	8.4	14.7	14.1	16.8	20.1	19.3	19.6	16.0	14.0	12.1	12.0	12.8	12.0
Crude oil.....	2.2	2.8	6.9	8.7	11.2	14.0	13.5	13.8	11.2	9.3	7.4	7.1	7.3	6.8
Consumption.....	43.8	66.4	74.3	70.6	74.4	76.3	78.1	78.9	76.0	74.0	70.8	70.5	74.1	73.8
Petroleum products.....	19.9	29.5	34.8	32.7	35.2	37.1	38.0	37.1	34.2	31.9	30.2	30.1	31.1	30.9
Natural gas <sup>2</sup> .....	12.4	21.8	22.5	19.9	20.3	19.9	20.0	20.7	20.4	19.9	18.5	17.4	18.5	17.8
Coal.....	9.8	12.3	13.0	12.7	13.6	13.9	13.8	15.0	15.4	15.9	15.3	15.9	17.1	17.5
Nuclear power.....	(z)	.2	.9	1.9	2.1	2.7	3.0	2.8	2.7	3.0	3.1	3.2	3.5	4.1
Hydropower <sup>5</sup> .....	1.7	2.7	3.0	3.2	3.1	2.5	3.1	3.1	3.1	3.1	3.6	3.9	3.8	3.4
Geothermal and other.....	(z)	(z)	(z)	.1	.1	.1	.1	.1	.1	.1	.1	.1	.2	.2

Z Less than 50 trillion. <sup>1</sup> Includes lease condensate. <sup>2</sup> Dry marketed gas. <sup>3</sup> Exports minus imports. <sup>4</sup> Includes other types, not shown separately. <sup>5</sup> Includes industrial generation of hydropower and net electricity imports.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

## NO. 934. SELECTED ENERGY INDICATORS—SUMMARY: 1960 TO 1985

[Btu=British thermal unit. For Btu conversion factors, see text, section 19]

YEAR	ANNUAL AVERAGE PERCENT CHANGE <sup>1</sup>								PER CAPITA <sup>6</sup> (mil. Btu)		Consumption per dollar GNP <sup>5</sup> (1,000 Btu)	
	Energy production				Energy consumption				GNP <sup>2</sup>	Energy production		Energy consumption
	Total <sup>3</sup>	Crude oil <sup>3</sup>	Natural gas <sup>4</sup>	Coal	Total <sup>3</sup>	Petroleum products	Natural gas (dry)	Coal				
1960.....	1.4	.7	6.3	-2.6	2.4	2.9	6.6	-2.5	2.2	231	243	26.3
1965.....	3.5	2.0	4.5	3.8	3.8	3.1	4.9	3.3	4.6	255	272	25.2
1970.....	4.7	4.3	6.5	2.3	4.7	4.9	6.7	1.2	3.0	304	326	27.5
1971.....	-1.3	-1.8	2.8	-9.7	2.2	3.5	3.1	-5.4	2.8	296	328	27.3
1972.....	1.8	(2)	-3	6.9	5.0	7.8	1.0	4.1	5.0	298	340	27.3
1973.....	-6	-2.7	-1	-7	4.2	5.7	-8	7.4	5.2	294	351	27.1
1974.....	-2.0	-4.7	-4.4	.6	-2.3	-4.0	-3.5	-2.4	-5	285	340	26.6
1975.....	-1.6	-4.5	-7.4	6.5	-2.8	-2.2	-8.2	(2)	-1.3	278	327	26.2
1976.....	.1	-2.7	-8	4.4	5.4	7.5	2.0	7.3	4.9	275	342	26.3
1977.....	.5	1.1	.5	.6	2.6	5.5	-2.1	2.5	4.7	274	347	25.8
1978.....	1.5	5.6	-4	-5.4	2.4	2.3	.4	-1.1	5.3	275	352	25.1
1979.....	4.4	-1.8	3.0	17.6	1.0	-2.2	3.3	9.3	2.5	284	351	24.7
1980.....	1.5	.8	.9	6.0	-3.7	-7.9	-1.3	2.5	-2	285	334	23.8
1981.....	-5	-6	-7	-1.2	-2.6	-6.6	-2.3	3.1	1.9	281	322	22.8
1982.....	-8	.9	-7.1	1.4	-4.3	-5.3	-7.1	-3.7	2.5	275	305	22.4
1983.....	-4.2	.5	-8.5	-7.5	-5	-6	-6.2	3.8	3.5	261	301	21.5
1984.....	7.6	2.5	8.0	14.3	5.1	3.3	6.6	7.4	6.5	278	313	21.2
1985, prel.....	-1.7	.2	-5.2	-1.7	-4	-6	-4.0	2.5	2.3	271	308	20.7

Z Less than .05 percent. <sup>1</sup> Represents annual average for period of intervals shown; for 1960, change from 1955. Percent change derived from Btu values. Minus sign indicates decrease. For explanation of average annual percent change, see Guide to Tabular Presentation. <sup>2</sup> Includes types of fuel or power not shown separately. <sup>3</sup> Includes lease condensate. <sup>4</sup> Includes natural gas plant liquids. <sup>5</sup> Gross national product in constant (1982) dollars, see table 699. <sup>6</sup> Based on resident population estimated as of July 1.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

## NO. 935. ENERGY CONSUMPTION—END-USE SECTOR AND SELECTED SOURCE, BY STATE: 1984

(In trillions of Btu, except as indicated. For Btu conversion factors, see text, section 19. For composition of regions, see fig. 1, inside front cover)

REGION, DIVISION, AND STATE	Total <sup>1</sup>	Per capita <sup>2</sup> (mil. Btu)	END-USE SECTOR				SOURCE				
			Residential	Commercial	Industrial	Transportation	Petroleum	Natural gas (dry)	Coal	Hydropower	Nuclear power
<b>U.S.</b>	<b>74,045</b>	<b>314</b>	<b>15,031</b>	<b>11,375</b>	<b>27,781</b>	<b>19,878</b>	<b>31,053</b>	<b>18,505</b>	<b>17,012</b>	<b>3,774</b>	<b>3,538</b>
<b>Region:</b>											
Northeast	11,558	232	2,940	2,254	3,230	3,136	5,750	2,294	1,988	629	779
Midwest	18,939	320	4,409	3,017	7,025	4,486	6,806	4,741	6,280	242	884
South	30,042	373	5,109	3,696	13,322	7,710	12,578	8,404	6,939	506	1,614
West	13,519	289	2,574	2,208	4,193	4,546	5,118	3,068	1,803	2,395	262
<b>New England</b>	<b>2,891</b>	<b>214</b>	<b>765</b>	<b>544</b>	<b>565</b>	<b>818</b>	<b>1,698</b>	<b>351</b>	<b>155</b>	<b>122</b>	<b>256</b>
Maine	295	255	61	43	102	89	185	3	4	90	55
New Hampshire	192	197	57	26	48	61	125	11	33	13	—
Vermont	112	212	38	16	23	36	60	5	1	12	36
Massachusetts	1,231	212	358	268	222	384	781	215	116	3	11
Rhode Island	183	190	56	37	37	53	96	33	(2)	(2)	—
Connecticut	678	215	195	154	133	195	451	84	1	4	154
<b>Middle Atlantic</b>	<b>8,867</b>	<b>239</b>	<b>2,175</b>	<b>1,710</b>	<b>2,665</b>	<b>2,318</b>	<b>4,052</b>	<b>1,943</b>	<b>1,833</b>	<b>507</b>	<b>523</b>
New York	3,485	197	916	863	744	963	1,744	815	309	495	229
New Jersey	1,954	260	452	375	531	596	1,074	431	83	4	61
Pennsylvania	3,428	288	807	472	1,390	759	1,234	697	1,441	15	233
<b>East North Central</b>	<b>13,343</b>	<b>321</b>	<b>3,083</b>	<b>2,105</b>	<b>5,211</b>	<b>2,943</b>	<b>4,375</b>	<b>3,393</b>	<b>4,518</b>	<b>49</b>	<b>693</b>
Ohio	3,630	338	796	534	1,553	747	1,134	809	1,388	2	47
Indiana	2,251	409	424	254	1,130	443	675	466	1,213	5	—
Illinois	3,660	318	871	692	1,262	835	1,283	1,064	829	1	378
Michigan	2,524	278	680	400	859	605	824	740	726	17	152
Wisconsin	1,278	268	332	225	407	313	459	314	362	24	116
<b>West North Central</b>	<b>5,896</b>	<b>319</b>	<b>1,326</b>	<b>912</b>	<b>1,815</b>	<b>1,543</b>	<b>2,231</b>	<b>1,348</b>	<b>1,762</b>	<b>193</b>	<b>191</b>
Minnesota	1,217	282	292	185	398	342	495	283	232	20	90
Iowa	925	318	226	146	324	230	338	242	250	10	29
Missouri	1,478	295	392	260	380	440	582	273	591	16	10
North Dakota	265	386	52	32	108	73	124	31	258	74	—
South Dakota	186	264	50	27	47	63	95	25	94	59	—
Nebraska	509	317	128	109	128	144	182	139	123	14	62
Kansas	1,016	417	181	153	430	251	405	375	274	(2)	—
<b>South Atlantic</b>	<b>10,771</b>	<b>273</b>	<b>2,351</b>	<b>1,741</b>	<b>3,275</b>	<b>3,401</b>	<b>4,729</b>	<b>1,404</b>	<b>3,447</b>	<b>189</b>	<b>1,099</b>
Delaware	210	342	37	27	88	57	125	44	73	—	—
Maryland	1,142	263	278	157	400	307	490	164	272	21	126
District of Columbia	167	268	36	70	28	33	48	30	3	—	—
Virginia	1,557	276	351	293	416	496	670	148	311	12	184
West Virginia	789	404	128	78	430	155	253	128	919	12	—
North Carolina	1,670	271	384	259	544	482	669	148	559	66	259
South Carolina	993	301	191	133	404	285	346	112	247	33	211
Georgia	1,765	302	353	246	547	619	759	317	683	43	59
Florida	2,478	226	595	478	418	987	1,369	313	380	2	260
<b>East South Central</b>	<b>5,130</b>	<b>341</b>	<b>1,015</b>	<b>672</b>	<b>2,095</b>	<b>1,345</b>	<b>1,790</b>	<b>924</b>	<b>1,900</b>	<b>254</b>	<b>398</b>
Kentucky	1,234	331	255	169	473	337	471	195	673	36	—
Tennessee	1,673	355	353	254	631	434	549	213	547	108	135
Alabama	1,398	350	255	153	657	332	447	299	576	112	261
Mississippi	825	318	152	96	334	242	323	277	104	—	2
<b>West South Central</b>	<b>14,141</b>	<b>542</b>	<b>1,743</b>	<b>1,483</b>	<b>7,952</b>	<b>2,964</b>	<b>6,059</b>	<b>6,076</b>	<b>1,592</b>	<b>63</b>	<b>117</b>
Arkansas	778	331	162	112	295	208	299	216	164	28	117
Louisiana	3,336	748	288	233	2,244	572	1,318	1,644	119	—	—
Oklahoma	1,342	407	266	195	548	334	449	674	229	24	—
Texas	8,685	543	1,027	943	4,866	1,850	3,993	3,542	1,080	11	—
<b>Mountain</b>	<b>4,025</b>	<b>321</b>	<b>791</b>	<b>694</b>	<b>1,331</b>	<b>1,210</b>	<b>1,622</b>	<b>868</b>	<b>1,668</b>	<b>523</b>	<b>1</b>
Montana	333	404	62	55	130	86	152	48	90	115	—
Idaho	340	340	78	65	119	79	104	40	9	137	—
Wyoming	339	664	41	33	196	70	121	88	361	13	—
Colorado	912	287	220	213	185	294	380	237	286	22	1
New Mexico	475	334	64	81	188	142	234	167	253	—	—
Arizona	798	261	157	147	205	290	322	125	326	163	—
Utah	518	313	107	60	220	129	184	119	187	14	—
Nevada	310	340	62	40	88	120	145	44	156	58	—
<b>Pacific</b>	<b>9,494</b>	<b>278</b>	<b>1,783</b>	<b>1,514</b>	<b>2,862</b>	<b>3,336</b>	<b>4,496</b>	<b>2,201</b>	<b>135</b>	<b>1,672</b>	<b>261</b>
Washington	1,642	377	380	278	603	380	553	130	82	932	57
Oregon	823	308	188	139	254	243	326	81	11	484	51
California	6,322	247	1,152	1,023	1,721	2,426	3,192	1,723	37	448	153
Alaska	473	947	42	55	238	140	195	265	5	7	—
Hawaii	234	225	21	19	46	147	230	—	—	1	—

— Represents zero. Z Less than 500 billion. <sup>1</sup> Sources of energy includes geothermal, wood and waste, and net interstate sales of electricity, including losses, not shown separately. <sup>2</sup> Based on estimated resident population as of July 1. <sup>3</sup> Includes —11 trillion Btu of net imports of coke not allocated by State. <sup>4</sup> Minus sign (—) indicates when amount of energy expended for pump storage hydropower exceeds amount of energy consumed.

Source: U.S. Energy Information Administration, *State Energy Data Report*, annual.

## NO. 936. PRIMARY ENERGY CONSUMPTION BY CONSUMING SECTOR: 1960 TO 1985

[For definition of Btu, see text, section 19]

SECTOR	1960	1970	1973	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985, prel.
<b>Total consumption (quad. Btu) .....</b>	<b>43.8</b>	<b>66.4</b>	<b>74.3</b>	<b>70.6</b>	<b>76.3</b>	<b>78.1</b>	<b>78.9</b>	<b>76.0</b>	<b>74.0</b>	<b>70.8</b>	<b>70.5</b>	<b>74.1</b>	<b>73.8</b>
Residential and commercial .....	8.7	12.1	12.3	11.6	11.9	11.9	11.5	10.7	10.0	10.1	9.7	10.1	9.8
Industrial and miscellaneous .....	16.3	21.9	23.6	20.4	21.9	21.9	22.8	21.0	19.7	17.4	16.7	18.2	17.5
Transportation .....	10.6	16.0	18.5	18.2	19.8	20.6	20.4	19.7	19.5	19.0	19.1	19.8	20.0
Electricity generation .....	8.2	16.3	19.9	20.3	22.7	23.7	24.1	24.5	24.8	24.3	24.9	26.0	26.5
<b>Percent of total:</b>													
Residential and commercial .....	20.0	18.3	16.5	16.4	15.6	15.3	14.6	14.1	13.6	14.2	13.8	13.6	13.3
Industrial and miscellaneous .....	37.1	32.9	31.7	28.9	28.7	28.0	28.9	27.7	26.6	24.6	23.7	24.5	23.7
Transportation .....	24.1	24.2	25.0	25.8	25.9	26.3	25.9	25.9	26.9	26.9	27.1	26.8	27.0
Electricity generation .....	18.7	24.5	26.7	28.8	29.8	30.4	30.6	32.3	33.5	34.2	35.4	35.1	35.8

Source: U.S. Energy Information Administration, *Annual Energy Review*.

## NO. 937. ENERGY CONSUMPTION, BY SECTOR AND PRIMARY SOURCE: 1985

[In trillions of Btu. For definition of Btu, see text, section 19]

SECTOR	Total <sup>1</sup>	Coal <sup>2</sup>	Natural gas, dry	Petroleum <sup>3</sup>	Hydroelectric <sup>4</sup>	Nuclear power	Other <sup>5</sup>	Electricity distributed <sup>6</sup>	Electric energy loss <sup>7</sup>
<b>Final consuming sectors .....</b>	<b>73,816</b>	<b>2,938</b>	<b>14,610</b>	<b>29,761</b>	<b>33</b>	<b>(x)</b>	<b>-13</b>	<b>7,879</b>	<b>18,608</b>
Residential and commercial .....	26,795	181	7,049	2,598	(x)	(x)	-	5,047	11,919
Industrial .....	27,014	2,757	7,039	7,718	33	(x)	-13	2,820	6,661
Transportation .....	20,007	-	522	19,445	(x)	(x)	-	12	28
Electric utilities .....	26,487	14,549	3,151	1,090	3,340	4,144	213	(x)	(x)

- Represents zero. X Not applicable. <sup>1</sup> Total may not equal sum of components due to independent rounding of the components. <sup>2</sup> Represents anthracite, bituminous coal, and lignite. <sup>3</sup> Includes petroleum products, still gas, liquefied refinery gas, and natural gas liquids. <sup>4</sup> Industrial sector is hydroelectricity produced by the industrial sector. Electric utilities sector includes net imports of electricity. <sup>5</sup> Industrial sector includes net imports of coke coal. Electric utilities sector includes electricity produced from geothermal, wood, waste, wind, solar thermal, and photovoltaic sources. <sup>6</sup> Electrical energy used by railroads, and for street and highway lighting, is included in transportation sector. <sup>7</sup> Losses allocated by final end-use sector in proportion to their direct kilowatt-hour usage.

Source: U.S. Energy Information Administration, *Monthly Energy Review*, January 1986.

## NO. 938. ENERGY EXPENDITURES AND AVERAGE FUEL PRICES, BY SOURCE AND SECTOR: 1970 TO 1983

[Btu=British thermal units; see text, section 19. End-use sector and electric utilities exclude expenditures and prices on energy sources such as hydropower, solar, wind, and geothermal. Also excludes expenditures for reported amounts of energy consumed by the energy industry for production, transportation, and processing operations]

SOURCE AND SECTOR	1970	1973	1975	1976	1977	1978	1979	1980	1981	1982	1983
<b>EXPENDITURES (mil. dol.)</b>											
<b>Total <sup>1, 2</sup> .....</b>	<b>82,600</b>	<b>111,628</b>	<b>171,452</b>	<b>192,469</b>	<b>218,900</b>	<b>237,697</b>	<b>295,318</b>	<b>370,972</b>	<b>420,231</b>	<b>420,523</b>	<b>404,860</b>
Natural gas .....	10,930	13,997	20,044	25,061	29,542	33,093	40,728	51,054	60,585	68,150	72,031
Petroleum products <sup>3</sup> .....	47,930	65,227	103,350	114,385	128,827	136,912	181,648	235,070	258,867	238,182	210,399
Motor gasoline .....	31,597	39,677	59,445	64,459	70,048	74,402	95,166	123,311	137,116	129,945	108,390
Distillate fuel oil .....	6,253	9,512	15,679	18,399	21,998	23,608	32,806	40,819	48,209	44,157	40,364
Jet fuel .....	1,539	2,129	4,466	4,854	5,859	6,694	9,165	14,838	15,836	14,974	13,943
Residual fuel .....	2,045	4,822	10,257	11,571	14,262	13,542	17,699	21,624	22,447	17,081	14,318
Coal .....	4,597	6,221	13,064	14,066	15,442	17,593	20,414	22,665	26,254	26,426	27,098
Electricity sales .....	23,483	33,928	50,665	57,309	66,654	74,577	82,355	98,494	116,363	127,459	134,846
Residential sector .....	20,142	27,075	36,868	41,815	47,595	51,880	58,001	68,906	77,881	86,807	92,469
Commercial sector .....	10,785	15,279	23,109	26,671	31,007	33,774	39,001	47,489	55,851	61,468	63,031
Industrial sector .....	16,079	23,123	40,326	46,367	54,394	59,870	75,597	91,013	102,633	99,431	99,901
Transportation sector <sup>2</sup> .....	35,593	46,162	71,149	77,616	85,905	92,173	122,720	163,565	183,866	172,828	148,459
Motor gasoline .....	30,525	38,607	57,991	62,975	69,529	72,903	93,284	120,744	134,392	127,598	106,528
Electric utilities .....	4,311	7,833	16,402	18,919	23,381	25,759	31,036	37,429	43,248	41,331	41,334
<b>AVERAGE FUEL PRICES (dol. per mil. Btu)</b>											
<b>All sectors .....</b>	<b>1.65</b>	<b>2.03</b>	<b>3.34</b>	<b>3.57</b>	<b>3.99</b>	<b>4.25</b>	<b>5.21</b>	<b>6.87</b>	<b>8.00</b>	<b>8.49</b>	<b>8.27</b>
Residential sector .....	2.12	2.74	3.84	4.17	4.81	5.19	6.06	7.55	8.91	9.91	10.76
Commercial sector .....	1.98	2.60	4.13	4.46	5.22	5.59	6.35	7.97	9.62	10.46	11.19
Industrial sector .....	.81	1.08	2.19	2.39	2.75	3.01	3.58	4.58	5.36	6.03	6.19
Transportation sector .....	2.33	2.59	4.04	4.19	4.46	4.60	6.19	8.60	9.77	9.38	8.03
Electric utilities .....	.32	.47	.96	1.02	1.16	1.25	1.48	1.75	2.00	2.01	1.97

<sup>1</sup> Includes electricity sales; excludes electricity generation. <sup>2</sup> Includes sources or fuel types not shown separately.Source: U.S. Energy Information Administration, *State Energy Price and Expenditure Report, 1970-1983*.

## No. 939. ENERGY EXPENDITURES—SOURCE AND END-USE SECTOR, BY STATE: 1983

[In millions of dollars, except per capita. End-use sector and electric utilities exclude expenditures on energy sources such as hydropower, solar, wind, and geothermal. Also excludes expenditures for reported amounts of energy consumed by the energy industry for production, transportation, and processing operations]

DIVISION AND STATE	Total <sup>1</sup>	Per capita <sup>2</sup> (dol.)	SOURCE					END-USE SECTOR					Electric utilities
			Petroleum products		Natural gas	Coal	Electricity sales	Residential	Commercial	Industrial	Transportation		
			Total	Gasoline									
U.S.	<sup>3</sup> 404,860	1,730	210,399	108,390	72,031	27,096	134,846	92,469	63,031	<sup>3</sup> 99,901	149,459	41,334	
N. Eng.	20,034	1,605	12,431	5,520	2,280	289	6,901	6,030	3,675	3,552	6,779	2,059	
ME	2,146	1,874	1,643	566	21	12	573	478	222	705	741	142	
NH	1,412	1,474	883	443	68	54	531	443	194	268	508	124	
VT	771	1,469	486	273	26	2	259	222	105	129	315	23	
MA	9,028	1,567	5,435	2,412	1,362	220	3,054	2,752	1,867	1,334	3,076	1,079	
RI	1,356	1,418	724	389	211	-	452	421	244	245	446	32	
CT	5,321	1,695	3,280	1,437	592	1	2,032	1,714	1,043	871	1,693	659	
Mid. Atl.	58,541	1,582	28,966	13,868	10,614	2,930	21,450	16,671	12,568	11,215	18,086	5,711	
NY	25,051	1,418	11,961	5,759	4,701	522	10,382	7,646	7,212	3,623	6,570	2,616	
NJ	14,675	1,966	8,314	3,445	2,422	178	4,594	3,756	2,656	2,649	5,613	881	
PA	18,815	1,583	8,691	4,664	3,491	2,230	6,474	5,269	2,700	4,943	5,903	2,214	
E. No. Cent.	72,959	1,759	31,252	18,012	16,300	7,998	23,810	18,829	11,234	19,986	22,907	6,797	
OH	20,398	1,900	9,224	5,010	4,104	2,343	6,540	4,925	2,885	6,295	6,292	1,846	
IN	10,873	1,987	4,611	2,607	2,068	1,958	3,412	2,423	1,082	3,800	3,567	1,175	
IL	19,926	1,737	9,325	4,849	4,645	1,686	7,032	5,340	3,804	4,479	6,303	1,933	
MI	13,963	1,543	5,445	3,357	3,821	1,373	4,436	3,971	2,300	3,566	4,126	1,217	
WI	7,799	1,643	3,647	2,189	1,664	638	2,390	2,170	1,163	1,846	2,619	626	
W. No. Cent.	31,594	1,814	16,732	9,258	5,638	2,243	9,255	7,858	4,426	7,441	11,867	3,396	
MN	7,093	1,712	3,820	2,180	1,244	305	2,001	1,836	837	1,739	2,681	339	
IA	5,696	1,961	2,875	1,537	1,042	418	1,731	1,449	807	1,510	1,931	388	
MO	8,463	1,705	4,374	2,544	1,461	839	2,604	2,208	1,258	1,680	3,316	814	
ND	1,401	2,057	956	438	106	187	323	271	142	396	591	171	
SD	1,289	1,815	830	424	121	37	313	311	133	313	511	34	
NE	2,965	1,858	1,578	856	570	129	817	702	477	683	1,103	170	
KS	4,707	1,940	2,299	1,279	1,094	328	1,466	1,081	772	1,120	1,734	480	
So. Atl.	62,329	1,604	34,067	19,286	6,511	5,893	23,153	14,540	9,125	12,522	26,139	7,783	
DE	1,138	1,878	707	336	159	143	392	262	192	246	438	264	
MD	6,908	1,607	3,642	2,066	977	414	2,344	1,795	1,059	1,489	2,565	537	
DC	1,106	1,775	373	220	229	8	513	215	363	234	294	16	
VA	8,948	1,611	4,734	2,731	816	496	3,278	2,180	1,509	1,515	3,744	470	
WV	3,309	1,687	1,550	905	555	1,426	1,013	694	373	1,117	1,124	1,236	
NC	9,561	1,574	5,103	3,061	741	1,131	3,832	2,288	1,162	2,243	3,867	1,106	
SC	5,940	1,840	2,549	1,646	522	470	2,151	1,140	653	1,470	2,077	493	
GA	9,755	1,702	5,172	2,981	1,508	1,110	3,025	1,865	1,234	2,213	4,343	1,104	
FL	16,264	1,514	10,237	5,340	1,004	695	6,905	4,001	2,580	1,995	7,687	2,557	
E. So. Cent.	25,691	1,734	12,334	7,306	3,408	3,237	9,793	5,174	3,261	7,613	9,844	3,080	
KY	6,289	1,694	3,136	1,788	745	1,003	2,273	1,312	689	1,893	2,456	867	
TN	8,200	1,754	3,713	2,405	869	928	3,459	1,543	1,200	2,337	3,120	845	
AL	7,236	1,827	3,348	1,943	975	1,069	2,682	1,473	856	2,316	2,591	962	
MS	4,166	1,614	2,137	1,170	819	237	1,379	846	516	1,127	1,677	406	
W. So. Cent.	62,621	2,422	34,692	13,623	15,187	2,603	18,282	9,865	7,331	24,623	20,803	8,207	
AR	4,138	1,780	2,170	1,137	736	307	1,327	890	457	1,191	1,600	465	
LA	12,861	2,897	7,603	2,252	3,347	240	2,880	1,602	1,262	6,353	3,645	1,208	
OK	6,206	1,875	3,125	1,847	1,623	377	2,025	1,392	854	1,427	2,533	944	
TX	39,416	2,498	2,794	8,387	9,481	1,679	12,050	5,981	4,758	15,652	13,025	5,590	
Mt.	20,758	1,881	11,337	6,248	3,133	1,665	6,362	4,227	3,267	4,264	8,999	1,743	
MT	1,386	1,701	880	474	187	34	317	259	185	281	651	32	
ID	1,537	1,557	840	486	184	15	498	253	228	449	608	-	
WY	1,565	3,033	1,037	356	194	298	299	197	151	625	591	263	
CO	4,986	1,585	2,556	1,499	1,009	287	1,423	1,208	1,003	675	2,100	291	
NM	2,372	1,695	1,463	778	426	222	599	399	386	431	1,156	339	
AZ	4,716	1,588	2,315	1,433	529	383	1,918	1,044	835	860	1,977	429	
UT	2,387	1,475	1,222	709	374	246	713	530	273	573	1,011	169	
NV	1,809	2,017	1,024	513	230	180	595	337	206	370	695	220	
Pac.	50,178	1,491	28,587	15,271	8,961	236	15,837	9,272	8,142	8,729	24,037	3,558	
WA	6,427	1,494	3,676	2,010	551	137	2,177	1,319	863	1,207	3,038	137	
OR	4,182	1,573	2,454	1,219	385	16	1,337	779	588	951	1,865	36	
CA	36,105	1,434	19,707	11,330	7,826	73	11,356	6,706	6,331	5,826	17,242	2,923	
AK	1,486	1,089	1,130	263	157	10	269	204	153	290	839	80	
HI	1,978	1,943	1,620	449	42	-	698	264	207	455	1,053	382	

- Represents zero. <sup>1</sup> Includes sources not shown separately. Total expenditures are the sum of purchases for each source (including electricity sales) less electric utility purchases of fuel. <sup>2</sup> Based on estimated resident population as of July 1.

<sup>3</sup> Includes net imports of coal coke not shown separately by State.

Source: U.S. Energy Information Administration, *State Energy Price and Expenditure Report*, annual.

# NO. 940. RESIDENTIAL ENERGY CONSUMPTION, EXPENDITURES, AND AVERAGE PRICES, 1979 TO 1985, AND BY REGION, 1985

[For period April to March of year stated. Excludes Alaska and Hawaii in 1979 and 1980. Covers occupied units only. Excludes household usage of gasoline for transportation and the use of wood or coal. Based on Residential Energy Consumption Survey; see Appendix III. For composition of regions, see fig. 1, inside front cover. Btu=British thermal unit; see text, section 19]

TYPE OF FUEL	Unit	1979, all house- holds	1980, all house- holds	1981, all house- holds	1982, all house- holds	1983, all house- holds	1985				
							All house- holds	North- east	Mid- west	South	West
CONSUMPTION											
Total.....	Quad. Btu.....	10.56	9.74	9.32	9.51	8.62	9.04	2.29	2.80	2.50	1.45
Avg. per household.....	Mil. Btu.....	138	126	114	114	103	105	125	129	85	85
Natural gas.....	Quad. Btu.....	5.58	5.31	4.94	5.39	4.77	4.98	.93	1.99	1.15	.91
Electricity.....	Quad. Btu.....	2.47	2.42	2.46	2.48	2.42	2.48	.41	.55	1.06	.47
Fuel oil, kerosene.....	Quad. Btu.....	2.19	1.71	1.55	1.33	1.14	1.26	.93	.13	.16	.04
Liquid petroleum gas.....	Quad. Btu.....	.33	.31	.36	.31	.29	.31	.03	.13	.12	.03
EXPENDITURES											
Total.....	Bil. dol.....	55.5	63.2	74.8	85.0	87.8	97.0	26.4	25.1	30.9	14.6
Avg. per household.....	Dollars.....	724	815	917	1,022	1,049	1,123	1,443	1,160	1,055	853
Natural gas.....	Bil. dol.....	15.3	17.8	19.3	24.5	27.1	29.8	6.9	11.1	6.7	5.1
Electricity.....	Bil. dol.....	29.9	32.6	40.1	45.9	48.4	54.5	12.2	11.8	21.7	8.6
Fuel oil, kerosene.....	Bil. dol.....	8.6	10.7	12.5	11.8	9.6	9.6	7.0	1.0	1.3	.3
Liquid petroleum gas.....	Bil. dol.....	1.7	2.1	2.9	2.7	2.7	3.1	.4	1.2	1.2	.4
AVERAGE PRICE (per million Btu)											
Total.....	Dollars.....	5.25	6.49	8.03	8.93	10.18	10.73	11.53	8.96	12.36	10.07
Natural gas.....	Dollars.....	2.74	3.36	3.90	4.55	5.67	5.98	7.42	5.58	5.83	5.80
Electricity.....	Dollars.....	12.10	13.46	16.32	18.51	19.98	22.98	29.76	21.45	20.47	18.72
Fuel oil, kerosene.....	Dollars.....	3.93	6.29	8.04	8.89	8.42	7.62	7.53	7.69	8.12	7.50
Liquid petroleum gas.....	Dollars.....	5.09	6.71	7.92	8.74	9.42	10.00	13.33	9.23	10.00	13.33

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: Consumption and Expenditures*, annual through 1983; beginning 1985, biennial.

# NO. 941. RESIDENTIAL ENERGY CONSUMPTION AND EXPENDITURES, BY TYPE OF FUEL AND SELECTED HOUSEHOLD CHARACTERISTIC: 1985

[For period April 1984 to March 1985. Quad.=quadrillion. See headnote, table 940]

CHARACTERISTIC	CONSUMPTION (Btu's)					EXPENDITURES				
	Total <sup>1</sup> (quad.)	Avg. per house- hold <sup>1</sup> (mil.)	Nat- ural gas (quad.)	Elec- tricity (quad.)	Fuel oil <sup>2</sup> (quad.)	Total <sup>1</sup> (bil. dol.)	Avg. per house- hold <sup>1</sup> (dol.)	Nat- ural gas (bil. dol.)	Elec- tricity (bil. dol.)	Fuel oil <sup>2</sup> (bil. dol.)
<b>Total households.....</b>										
Single family detached.....	9.04	105	4.98	2.48	1.28	97.0	1,123	29.8	54.5	9.6
Single family attached.....	6.27	117	3.46	1.80	.77	67.1	1,255	20.2	38.5	6.1
2-4 unit building.....	.45	112	.26	.11	.07	5.1	1,256	1.7	2.7	.6
5 or more unit building.....	.97	97	.64	.17	.16	8.5	950	4.1	4.2	1.3
Mobile home.....	.97	71	.51	.25	.21	10.3	761	3.1	5.9	1.3
	.37	73	.12	.15	.04	4.9	947	.6	3.2	.3
<b>Year house built:</b>										
1939 or earlier.....	3.16	126	1.88	.54	.64	30.5	1,212	11.6	13.0	4.9
1940-1949.....	.74	106	.42	.17	.13	7.7	1,094	2.6	3.9	1.0
1950-1959.....	1.36	107	.80	.34	.18	14.1	1,120	4.7	7.7	1.4
1960-1964.....	.75	101	.40	.23	.09	8.2	1,098	2.3	4.8	.7
1965-1969.....	.82	99	.45	.27	.07	9.3	1,126	2.7	5.8	.6
1970-1974.....	.96	89	.49	.36	.05	11.5	1,079	2.9	7.7	.4
1975-1979.....	.88	87	.38	.41	.07	11.1	1,100	2.1	8.3	.5
1980 or later.....	.37	74	.15	.16	.03	4.5	903	.8	3.3	.2
<b>Heating and cooling degree day zones: <sup>3</sup></b>										
Less than 2,000 CDD and—										
More than 7,000 HDD.....	1.03	114	.56	.22	.17	9.6	1,067	3.1	4.5	1.3
5,500-7,000 HDD.....	2.90	135	1.87	.55	.42	27.6	1,289	11.0	12.8	3.3
4,000-5,499 HDD.....	2.50	111	1.22	.63	.59	27.3	1,212	8.0	14.3	4.4
Less than 4,000 HDD.....	1.65	83	.93	.59	.05	18.1	905	5.3	11.6	.5
More than 2,000 CDD and less than 4,000 HDD.....	.97	73	.41	.50	.02	14.4	1,081	2.4	11.3	.2
<b>1984 family income:</b>										
Less than \$5,000.....	.71	91	.42	.16	.10	7.0	891	2.4	3.5	.7
\$5,000-\$9,999.....	1.32	95	.70	.31	.23	13.5	964	4.1	8.8	1.8
\$10,000-\$14,999.....	1.21	92	.67	.32	.17	12.6	965	3.9	7.0	1.3
\$15,000-\$19,999.....	.90	100	.49	.23	.14	9.4	1,043	2.9	5.0	1.0
\$20,000-\$24,999.....	.84	101	.45	.24	.12	9.0	1,080	2.7	5.1	.9
\$25,000-\$34,999.....	1.65	108	.90	.50	.21	18.2	1,190	5.4	10.7	1.7
\$35,000-\$49,999.....	1.28	121	.70	.40	.16	14.5	1,368	4.3	8.8	1.3
\$50,000 or more.....	1.13	139	.67	.33	.11	12.7	1,568	4.0	7.7	.8

<sup>1</sup> Includes liquid petroleum gas, not shown separately.

<sup>2</sup> Includes kerosene.

<sup>3</sup> CDD=Cooling degree day; HDD=Heating degree day.

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: Consumption and Expenditures*, April 1984 through March 1985.

**NO. 942. AVERAGE RESIDENTIAL ENERGY CONSUMPTION AND EXPENDITURES OF ALL FUELS USED, BY MAIN HEATING FUEL TYPE AND HOUSEHOLD CHARACTERISTIC: 1985**

[For period April 1984 through March 1985. See headnote, table 940]

HOUSEHOLD CHARACTERISTIC	CONSUMPTION PER HOUSEHOLD (mil. Btu)					EXPENDITURES PER HOUSEHOLD (dollars)				
	All households <sup>1</sup>	Households using as main heating fuel—				All households <sup>1</sup>	Households using as main heating fuel—			
		Natural gas	Electricity		Fuel oil <sup>2</sup>		Natural gas	Electricity		Fuel oil <sup>2</sup>
			With air conditioning	Without air conditioning				With air conditioning	Without air conditioning	
<b>Total households</b> .....	<b>105</b>	<b>124</b>	<b>56</b>	<b>53</b>	<b>126</b>	<b>1,123</b>	<b>1,119</b>	<b>1,071</b>	<b>863</b>	<b>1,422</b>
<b>Region:</b>										
Northeast.....	125	136	61	52	137	1,443	1,421	1,476	1,233	1,535
Midwest.....	129	142	71	72	124	1,160	1,154	1,151	1,284	1,286
South.....	85	115	54	43	90	1,055	1,121	1,047	811	1,155
West.....	85	99	54	53	121	853	873	916	705	1,124
<b>Type:</b>										
Single-family detached.....	117	140	70	64	137	1,255	1,272	1,289	1,046	1,582
Single-family attached.....	112	118	68	67	143	1,256	1,195	1,221	1,266	1,573
2-4 unit building.....	97	101	45	45	124	950	903	816	614	1,377
5 or more unit building.....	71	83	35	37	105	761	705	743	604	1,040
Mobile home.....	73	102	47	54	78	947	922	950	987	1,000
<b>Year house built:</b>										
1939 or earlier.....	126	138	64	58	138	1,212	1,177	929	809	1,502
1940 to 1949.....	106	114	61	62	131	1,094	1,030	1,231	791	1,473
1950 to 1959.....	107	119	65	40	116	1,120	1,101	1,290	622	1,386
1960 to 1964.....	101	118	54	49	104	1,098	1,147	1,038	792	1,126
1965 to 1969.....	99	121	56	49	122	1,126	1,162	1,075	797	1,463
1970 to 1974.....	89	119	50	58	102	1,079	1,128	987	1,061	1,303
1975 to 1979.....	87	120	61	53	116	1,100	1,078	1,163	916	1,418
1980 or later.....	74	92	47	57	112	903	827	918	913	1,190
<b>1984 family income:</b>										
Less than \$5,000.....	91	112	39	40	104	891	913	771	693	1,119
\$5,000-\$9,999.....	95	115	40	46	115	984	967	772	777	1,227
\$10,000-\$14,999.....	92	108	49	50	118	995	927	960	734	1,280
\$15,000-\$19,999.....	100	117	47	46	119	1,043	1,023	937	681	1,352
\$20,000-\$24,999.....	101	113	58	61	129	1,080	1,014	1,040	1,060	1,484
\$25,000-\$34,999.....	108	127	61	61	137	1,190	1,184	1,140	923	1,541
\$35,000-\$49,999.....	121	138	75	62	145	1,368	1,331	1,401	1,124	1,742
\$50,000 or more.....	139	164	67	65	152	1,568	1,606	1,329	1,136	1,832

<sup>1</sup> Includes households using liquid petroleum gas, not shown separately.

<sup>2</sup> Includes kerosene.

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: Consumption and Expenditures, April 1984 through March 1985*.

**NO. 943. COMMERCIAL BUILDINGS—ENERGY CONSUMPTION AND EXPENDITURES, BY MAJOR FUEL TYPE USED: 1983**

[Covers buildings using one or more major fuel. Excludes industrial buildings. Excludes Alaska and Hawaii. Based on a sample survey of building representatives conducted between March and August 1983; therefore subject to sampling variability. For characteristics of commercial buildings, see also tables 1272-1274. Quad.=quadrillion]

ITEM	Unit	All major fuels	Electricity	Natural gas	Fuel oil	Propane	Purchased steam
Number of buildings using the fuel.....	1,000.....	3,774	3,764	2,239	538	250	59
Square footage of floorspace.....	Million.....	51,280	51,146	36,088	10,205	2,721	4,538
Square footage per building.....	1,000.....	13.6	13.6	16.1	19.0	10.9	77.5
Energy consumed, total.....	Quad. Btu.....	5,150	2,237	2,227	354	.038	.294
Energy consumed per building.....	Mil. Btu.....	1,354	594	994	659	150	5,028
Energy consumed per square foot of floorspace.....	1,000 Btu.....	100	44	62	35	14	65
Energy consumed per employee.....	Mil. Btu.....	66	29	42	22	9	36
Expenditures, total.....	Mil. dol.....	59,242	41,554	12,284	2,369	352	2,693
Expenditures per building.....	\$1,000.....	15.7	11.0	5.5	4.4	1.4	45.8
Expenditures per square foot of floorspace.....	Dollars.....	1.16	.81	.34	.23	.13	.59
Expenditures per million Btu of energy consumed.....	Dollars.....	11.50	18.58	5.62	6.69	9.38	9.12

Source: U.S. Energy Information Administration, *Nonresidential Buildings Energy Consumption Survey: Consumption and Expenditures, 1983*.

## NO. 944. COMMERCIAL BUILDINGS—ENERGY CONSUMPTION AND EXPENDITURES: 1983

[Covers buildings using one or more major fuel. Excludes industrial buildings, Excludes Alaska and Hawaii. Based on a sample survey of building representatives conducted between March and August 1983; therefore subject to sampling variability. For characteristics of commercial buildings, see tables 1299-1301]

BUILDING CHARACTERISTIC	ALL BUILDINGS USING ANY MAJOR FUEL		CONSUMPTION (quadrillion, Btu)			EXPENDITURES (mil. dol)		
	Number (1,000)	Square feet (mil.)	Major fuel, total <sup>1</sup>	Electricity	Natural gas	Major fuel, total <sup>1</sup>	Electricity	Natural gas
<b>All buildings</b> .....	<b>3,774</b>	<b>51,280</b>	<b>5,150</b>	<b>2,237</b>	<b>2,227</b>	<b>59,242</b>	<b>41,554</b>	<b>12,284</b>
Year constructed:								
1900 or before.....	279	2,884	.194	.051	.087	2,149	1,209	583
1901 to 1920.....	369	5,228	.354	.112	.170	3,918	2,408	954
1921 to 1945.....	685	8,269	.846	.285	.384	9,355	5,874	2,183
1946 to 1960.....	883	9,434	.938	.362	.424	10,406	6,909	2,309
1961 to 1970.....	700	9,873	1,089	.496	.464	12,713	9,041	2,491
1971 to 1973.....	207	3,411	.366	.189	.136	4,742	3,736	761
1974 to 1979.....	517	6,550	.861	.423	.379	10,004	7,472	2,114
1980 to 1983.....	135	5,631	.491	.288	.172	5,954	4,904	889
Principal activity within building:								
Assembly.....	452	5,475	.377	.121	.187	4,147	2,553	1,094
Educational.....	177	6,044	.484	.155	.246	4,843	2,969	1,317
Food sales/services.....	380	2,050	.437	.222	.193	5,510	4,176	1,139
Health care.....	61	2,277	.465	.147	.219	4,385	2,487	1,115
Lodging.....	106	2,241	.365	.151	.171	3,932	2,714	875
Mercantile/services.....	1,055	10,347	1,338	.434	.337	10,338	7,836	1,969
Office.....	575	8,444	1,039	.521	.371	13,087	9,866	2,031
Residential.....	235	2,442	.179	.042	.095	1,856	970	595
Warehouse.....	387	6,700	.506	.208	.248	5,530	3,786	1,358
Other.....	167	2,738	.276	.151	.078	3,377	2,564	405
Vacant.....	180	2,522	.184	.086	.073	2,226	1,634	384
Region:								
Northeast.....	653	11,413	.954	.345	.314	13,580	9,031	2,143
Midwest.....	1,157	15,716	1,922	.697	1,044	18,991	12,110	5,542
South.....	1,415	16,683	1,563	.849	.550	19,218	15,121	2,833
West.....	549	7,467	.710	.346	.319	7,454	5,292	1,767
Square footage:								
5,000 or less.....	2,112	4,680	.871	.332	.474	10,016	6,821	2,669
5,001 to 10,000.....	705	5,083	.562	.217	.285	6,323	4,168	1,692
10,001 to 25,000.....	560	8,795	.727	.321	.301	8,872	6,299	1,731
25,001 to 50,000.....	216	7,470	.685	.305	.317	8,142	5,840	1,746
50,001 to 100,000.....	104	6,963	.616	.291	.239	6,956	5,035	1,300
100,001 to 200,000.....	49	6,613	.589	.251	.237	6,468	4,444	1,233
Over 200,000.....	29	11,675	1,090	.520	.372	12,464	8,946	1,912

<sup>1</sup> Includes fuel oil, propane, and purchased steam, not shown separately.

Source: U.S. Energy Information Administration, *Nonresidential Buildings Energy Consumption Survey: Consumption and Expenditures, 1983*.

## NO. 945. FOSSIL FUEL PRICES IN CURRENT AND CONSTANT (1982) DOLLARS: 1960 TO 1985

[In cents per million British thermal units (Btu), except as indicated. All fuel prices taken as close to the point of production as possible. See text, section 19, for explanation of Btu conversions from mineral fuels. Minus sign (-) indicates decrease]

YEAR OR PERIOD	CURRENT DOLLARS					CONSTANT (1982) DOLLARS					GNP <sup>3</sup> price deflators (1982=100)
	Composite <sup>1</sup>	Crude oil	Natural gas	Bituminous coal <sup>2</sup>	Anthracite coal	Composite <sup>1</sup>	Crude oil	Natural gas	Bituminous coal <sup>2</sup>	Anthracite coal	
1960.....	28.3	49.7	12.6	18.8	33.8	91.6	160.8	40.8	60.8	109.4	30.9
1965.....	27.7	49.3	14.5	17.9	36.3	82.0	145.9	42.9	53.0	107.4	33.8
1970.....	31.7	54.8	15.4	26.2	48.8	75.5	130.5	36.7	62.4	116.2	42.0
1973.....	39.8	67.1	20.1	36.5	61.7	80.4	135.6	40.6	73.7	124.6	49.5
1974.....	67.6	118.4	27.3	68.2	102.2	125.2	219.3	50.6	126.3	199.3	54.0
1975.....	82.5	132.2	41.1	83.9	149.5	139.1	222.9	69.3	141.5	252.1	59.3
1976.....	90.2	141.2	53.1	85.0	153.9	142.9	223.8	84.2	134.7	243.9	63.1
1977.....	100.8	147.6	72.3	87.7	153.8	149.8	219.6	107.4	130.3	228.5	67.3
1978.....	111.6	155.2	83.6	97.9	152.7	154.6	215.0	115.8	135.6	211.5	72.2
1979.....	141.7	217.9	108.1	105.3	177.2	180.3	277.2	137.5	134.0	225.4	78.6
1980.....	204.2	372.2	144.8	109.4	185.9	238.3	434.3	169.0	127.7	216.9	85.7
1981.....	274.5	547.3	179.5	117.9	190.1	292.0	582.8	191.0	125.4	202.2	94.0
1982.....	275.8	491.7	222.2	122.1	214.0	275.8	491.7	222.2	122.1	214.0	100.0
1983.....	270.1	451.6	232.3	117.2	230.0	260.0	434.6	223.6	122.8	221.4	103.6
1984.....	264.6	446.2	239.9	115.9	208.7	244.8	412.8	221.9	107.2	193.1	108.1
1985, prel.....	249.9	415.2	223.6	114.3	210.1	223.7	371.7	200.2	102.3	186.1	111.5
Percent change:											
1960-70.....	12.0	10.3	22.2	39.4	44.4	-17.6	-18.8	-10.0	2.6	6.2	35.9
1970-73.....	25.6	22.4	30.5	39.3	26.4	6.5	3.9	10.8	18.1	7.2	17.9
1973-75.....	107.3	97.0	104.5	129.9	142.3	73.0	64.4	70.7	92.0	102.3	19.8
1975-79.....	71.8	64.8	183.0	25.5	18.5	29.6	24.4	98.4	-5.3	-10.6	32.5
1979-80.....	44.1	70.8	34.0	3.9	4.9	32.2	56.7	22.9	-4.7	-3.8	9.0
1980-81.....	34.4	47.2	24.0	7.8	2.3	22.5	34.2	13.0	-1.8	-6.8	9.7
1981-82.....	.5	-10.2	23.8	3.6	12.6	-5.5	-15.6	16.3	-2.6	5.8	6.4
1982-83.....	-2.1	-8.2	4.5	-4.0	7.5	-5.7	-11.6	0.6	-7.6	3.5	3.8
1983-84.....	-2.0	-1.2	3.3	-1.1	-9.3	-5.8	-5.0	-0.8	-5.0	-12.8	3.6
1984-85, prel.....	-5.6	-6.9	-6.8	-1.4	.7	-8.6	-10.0	-9.8	-4.6	-2.6	3.3

<sup>1</sup> Weighted by relative importance of individual fuels in total fuels production. <sup>2</sup> Includes lignite.

<sup>3</sup> GNP=Gross national product; see text, section 15.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

# NO. 946. WORLD ENERGY CONSUMPTION, BY REGION AND ENERGY SOURCE: 1960 TO 1984

[In tons of coal equivalent. Metric ton=1.1023 short tons. Kilogram=2.205 pounds. See text, section 32 for general comments about the data]

REGION AND ENERGY SOURCE	CONSUMPTION (mil. metric tons)					PER CAPITA (kilograms)				PERCENT DISTRIBUTION			
	1960	1970	1980	1983	1984	1960	1970	1980	1984	1960	1970	1980	1984
<b>World total</b> .....	<b>3,924</b>	<b>6,440</b>	<b>6,544</b>	<b>8,550</b>	<b>8,856</b>	<b>1,302</b>	<b>1,748</b>	<b>1,919</b>	<b>1,859</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
North America <sup>1</sup> .....	1,599	2,502	2,798	2,598	2,888	5,951	7,825	7,480	6,800	40.7	38.9	32.7	30.4
United States.....	1,454	2,217	2,364	2,178	2,257	8,047	10,811	10,386	9,577	37.1	34.4	27.7	25.5
South America.....	79	143	251	248	254	535	749	1,046	965	2.0	2.2	2.9	2.9
Europe.....	1,039	1,720	2,145	2,052	2,081	2,443	3,745	4,433	4,244	26.5	26.7	25.1	23.5
Asia.....	514	903	1,379	1,732	1,857	276	386	607	666	13.1	14.0	18.5	21.0
Japan.....	96	333	435	418	454	1,025	3,248	3,726	3,800	2.4	5.2	5.1	5.1
U.S.S.R.....	595	999	1,473	1,594	1,648	2,777	4,132	5,549	5,977	15.2	15.5	17.2	18.6
Oceania.....	41	71	105	108	112	2,597	3,675	4,572	4,574	1.0	1.1	1.2	1.3
Energy source:													
Solid fuels.....	1,940	2,159	2,632	2,762	2,863	644	586	591	601	49.4	33.5	30.8	32.3
Liquid fuels.....	1,306	2,835	3,778	3,559	3,647	433	770	848	766	33.3	44.0	44.2	41.2
Natural gas.....	593	1,292	1,834	1,869	1,978	197	351	412	415	15.1	20.1	21.5	22.3
Electricity.....	84	154	301	360	387	28	42	68	81	2.1	2.4	3.5	4.4

<sup>1</sup> Includes Central America.

Source: Statistical Office of the United Nations, New York, NY, *Energy Statistics Yearbook*, annual. (Copyright.)

# NO. 947. WORLD PRIMARY ENERGY PRODUCTION, BY REGION AND TYPE: 1973 TO 1984

[In quadrillion Btu. Btu=British thermal units. For Btu conversion factors, see source]

REGION AND TYPE	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984, prel.
<b>World total</b> .....	<b>244.8</b>	<b>247.7</b>	<b>245.0</b>	<b>259.2</b>	<b>267.8</b>	<b>273.0</b>	<b>287.3</b>	<b>285.4</b>	<b>280.6</b>	<b>278.5</b>	<b>280.7</b>	<b>292.9</b>
North America.....	73.3	72.3	71.1	71.3	72.4	74.0	78.2	80.6	81.0	81.4	79.2	84.6
United States.....	62.0	60.8	59.8	59.8	60.1	61.0	63.7	64.7	64.3	63.8	61.1	65.6
Central and South America.....	12.9	12.0	10.6	10.7	10.9	11.2	12.2	12.1	12.0	11.9	12.0	12.7
Western Europe.....	19.6	20.1	21.4	22.4	24.0	24.8	27.4	28.7	29.9	30.8	32.1	32.6
Eastern Europe and U.S.S.R.....	51.4	53.6	55.9	58.9	61.6	64.0	66.1	67.7	68.2	70.4	72.3	74.0
Middle East.....	46.6	48.2	43.5	49.2	48.8	47.2	48.5	41.8	36.6	29.5	27.2	27.1
Africa.....	14.8	13.9	13.3	15.4	16.4	16.5	18.1	17.2	14.9	15.0	15.8	16.6
Far East and Oceania.....	26.2	27.6	29.3	31.4	32.8	35.3	36.7	37.3	38.1	39.4	42.1	45.2
Crude oil.....	117.8	118.1	111.6	121.3	126.0	126.3	131.6	125.5	117.5	111.7	111.3	114.1
Natural gas.....	43.2	43.8	43.9	45.7	46.9	48.2	51.6	52.9	54.3	53.7	53.9	57.7
Natural gas liquids.....	4.2	4.4	4.4	4.5	4.7	4.8	5.2	5.5	5.9	5.9	6.0	6.5
Coal.....	63.8	63.8	66.3	68.1	69.3	70.4	74.6	75.8	76.0	78.9	79.1	82.1
Hydroelectric power.....	13.5	14.8	15.0	15.1	15.5	16.7	17.6	18.2	18.4	18.9	19.8	20.2
Nuclear.....	2.2	2.9	3.9	4.5	5.4	6.5	6.7	7.5	8.6	9.4	10.8	12.3

Source: U.S. Energy Information Administration, *International Energy Annual*.

# NO. 948. DAILY INTERNATIONAL FLOW OF CRUDE OIL, BY AREA: 1983

[In thousands of barrels per day]

EXPORTING AREA	Total	IMPORTING AREA									
		North America		Central and South America	Western Europe		East-ern Europe	Middle East and Africa	Japan	Other Far East and Oceania	
		U.S.	Canada		Atlantic Ocean, North Sea	Mediterranean Sea					
World total.....	24,221	3,329	242	2,328	5,012	3,852	1,886	1,115	3,614	2,843	
North America.....	1,979	1,038	74	346	153	226	-	-	137	5	
United States.....	164	(X)	19	145	-	-	-	-	-	-	
Central and South America.....	1,317	302	55	638	183	65	-	5	19	50	
Western Europe.....	1,997	432	14	20	1,478	51	-	2	-	-	
Eastern Europe and U.S.S.R.....	2,642	-	-	145	766	191	1,386	18	2	134	
Middle East.....	10,772	572	63	879	960	2,614	359	798	2,501	2,026	
Africa.....	3,604	665	36	250	1,467	690	136	282	48	30	
Far East and Oceania.....	1,910	320	-	50	5	15	5	10	907	598	

- Represents zero. X Not applicable. <sup>1</sup> Includes shipments to Puerto Rico and Virgin Islands.

Source: U.S. Energy Information Administration, *International Energy Annual*.

## NO. 949. U.S. FOREIGN TRADE IN SELECTED MINERAL FUELS: 1970 TO 1985

[Btu=British thermal units. For Btu conversion factors, see text, section 19. Minus sign (—) indicates an excess of imports over exports. See also *Historical Statistics, Colonial Times to 1970*, series M 100, 101, 127, 128, 140, 141, 178, and 181]

YEAR	NATURAL GAS						CRUDE OIL					
	Imports		Exports		Net trade		Imports <sup>1</sup>		Exports		Net trade	
	Bil. cu. ft.	Tril. Btu	Bil. cu. ft.	Tril. Btu	Bil. cu. ft.	Tril. Btu	Mill. bbl.	Tril. Btu	Mill. bbl.	Tril. Btu	Mill. bbl.	Tril. Btu
1970.....	820.8	846	69.8	72	-751.0	-774	483	2,814	5	29	-478	-2,785
1971.....	934.5	964	80.2	83	-854.3	-881	613	3,573	1	3	-612	-3,570
1972.....	1,019.5	1,047	78.0	80	-941.5	-967	811	4,712	(2)	1	-811	-4,710
1973.....	1,032.9	1,060	77.2	79	-955.7	-981	1,184	6,887	1	4	-1,183	-6,883
1974.....	959.3	985	76.8	78	-882.5	-907	1,269	7,395	1	6	-1,268	-7,389
1975.....	953.0	978	72.7	74	-880.3	-904	1,498	8,721	2	12	-1,496	-8,709
1976.....	963.8	988	64.7	66	-899.1	-922	1,935	11,239	3	17	-1,932	-11,221
1977.....	1,011.0	1,037	55.6	56	-955.4	-981	2,414	14,027	18	106	-2,396	-13,921
1978.....	985.5	995	52.5	53	-913.0	-941	2,320	13,460	58	335	-2,282	-13,125
1979.....	1,253.4	1,300	55.7	56	-1,197.7	-1,243	2,380	13,825	86	497	-2,294	-13,328
1980.....	984.8	1,006	48.7	49	-936.1	-957	1,926	11,195	105	609	-1,821	-10,586
1981.....	903.9	917	59.4	60	-844.6	-857	1,805	9,336	83	482	-1,522	-8,854
1982.....	933.3	950	51.7	52	-881.6	-898	1,273	7,418	86	500	-1,187	-6,918
1983.....	919.8	942	54.6	55	-865.1	-887	1,215	7,079	60	348	-1,155	-6,731
1984.....	843.1	847	54.8	55	-788.3	-792	1,254	7,302	68	384	-1,188	-6,918
1985, prel.....	926.0	932	55.0	56	-871.0	-876	1,168	6,811	75	432	-1,093	-6,379

	COAL						PETROLEUM PRODUCTS					
	Imports		Exports		Net trade		Imports		Exports		Net trade	
	1,000 sh. tons	Tril. Btu	1,000 sh. tons	Tril. Btu	1,000 sh. tons	Tril. Btu	Mill. bbl.	Tril. Btu	Mill. bbl.	Tril. Btu	Mill. bbl.	Tril. Btu
1970.....	36	1	71,733	1,936	71,697	1,935	765	4,656	89	520	-676	-4,136
1971.....	111	3	57,304	1,548	57,193	1,543	819	4,968	81	470	-738	-4,498
1972.....	47	1	56,740	1,531	56,693	1,530	924	5,587	81	467	-843	-5,120
1973.....	127	3	53,687	1,425	53,460	1,422	1,098	6,578	84	482	-1,015	-6,097
1974.....	2,080	52	60,861	1,820	58,581	1,568	962	5,731	79	458	-883	-5,273
1975.....	940	24	66,309	1,761	65,369	1,738	712	4,227	74	427	-638	-3,800
1976.....	1,203	30	60,021	1,597	58,818	1,567	741	4,434	79	452	-662	-3,982
1977.....	1,647	41	54,312	1,442	52,665	1,401	800	4,728	70	408	-730	-4,321
1978.....	2,953	74	40,714	1,078	37,761	1,004	733	4,364	74	432	-659	-3,932
1979.....	2,059	51	65,042	1,753	62,983	1,702	707	4,108	86	505	-821	-3,603
1980.....	1,194	30	91,742	2,421	90,548	2,391	603	3,463	94	551	-509	-2,912
1981.....	1,043	26	112,541	2,944	111,498	2,918	584	3,303	134	781	-450	-2,522
1982.....	742	19	108,277	2,787	105,535	2,768	593	3,369	211	1,224	-382	-2,135
1983.....	1,271	32	77,772	2,045	76,501	2,013	829	3,568	210	1,217	-419	-2,351
1984.....	1,286	32	81,482	2,151	80,196	2,119	736	4,131	198	1,161	-538	-2,970
1985, prel.....	1,952	49	92,680	2,438	90,728	2,389	668	3,716	211	1,225	-457	-2,491

Z Less than 500,000. <sup>1</sup> Beginning 1977, includes strategic petroleum reserve imports.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

## NO. 950. CRUDE OIL IMPORTS INTO U.S., BY COUNTRY OF ORIGIN: 1970 TO 1985

COUNTRY OF ORIGIN	IMPORTS (mill. 42-gal. bblis.)														PERCENT DISTRIBUTION		
	1970	1973	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1970	1980	1985		
Total .....	483	1,184	1,498	2,414	2,320	2,380	1,926	1,605	1,273	1,215	1,254	1,166	100.0	100.0	100.0		
Canada .....	245	365	219	102	90	99	73	60	78	100	125	171	50.7	3.8	14.6		
Mexico .....	-	(z)	26	65	115	160	186	171	235	280	241	261	-	9.6	22.3		
Norway .....	-	-	5	18	38	28	53	42	37	24	41	11	-	2.7	1.0		
Trinidad-Tobago .....	(z)	22	42	49	52	45	42	37	34	30	32	36	(z)	2.2	3.0		
United Kingdom .....	-	-	-	36	62	72	63	135	161	133	138	102	-	3.3	8.7		
OPEC .....	222	767	1,171	2,058	1,892	1,866	1,414	1,067	833	540	553	479	46.0	73.4	41.0		
Algeria .....	2	44	96	198	231	222	167	95	33	64	71	31	4.7	2.6	2.7		
Ecuador .....	-	17	21	20	14	11	6	14	12	21	17	20	-	3.1	1.6		
Gabon .....	-	-	10	13	14	15	9	13	14	21	21	19	-	4.4	1.6		
Indonesia .....	26	73	138	185	195	139	115	116	82	115	111	107	5.4	6.0	9.1		
Iran .....	12	79	102	193	202	108	3	-	13	18	4	10	2.5	2.2	1.8		
Iraq .....	-	2	(z)	27	23	32	10	-	1	4	5	17	-	5.4	1.4		
Kuwait .....	12	15	1	15	2	2	10	-	1	3	9	1	2.5	5.1	1.1		
Libya .....	17	49	81	257	233	234	200	116	8	-	-	-	3.5	10.4	4.1		
Nigeria .....	17	164	272	412	332	390	308	223	168	110	76	102	3.5	16.0	8.7		
Qatar .....	-	3	7	24	23	11	8	3	3	-	1	-	-	4.4	-		
Saudi Arabia .....	15	169	256	501	417	492	458	406	194	117	113	48	3.1	23.8	4.1		
United Arab Emirates .....	23	26	43	122	141	103	63	28	30	7	33	13	4.8	3.3	1.9		
Venezuela .....	98	126	144	91	66	107	57	54	56	60	93	112	20.3	3.0	9.6		
Other .....	16	30	35	86	71	110	95	93	95	108	124	109	3.3	4.9	9.3		

- Represents zero. Z Less than 500,000 or less than .05 percent.

Source: 1970-1975, U.S. Bureau of Mines, *Minerals Yearbook and Mineral Industry Surveys*; 1977-1980, U.S. Energy Information Administration, *Petroleum Statement*, annual; thereafter, U.S. Energy Information Administration, *Petroleum Supply Annual*.

## No. 951. CRUDE OIL AND REFINED PRODUCTS SUMMARY: 1973 TO 1986

(Barrels of 42 gallons)

YEAR AND MONTH	CRUDE OIL (1,000 bbl. per day)					REFINED OIL PRODUCTS (1,000 bbl. per day)				Total oil im- ports <sup>2</sup> (1,000 bbl. per day)	CRUDE OIL STOCKS <sup>3</sup> (mil. bbl.)	
	Input to refiner- ies	Do- mestic pro- duction	Imports		Ex- ports	Do- mestic de- mand	Im- ports	Ex- ports	Total		Strat- egic re- serve	
			Total <sup>1</sup>	Strat- egic re- serve								
1973, avg.	12,431	9,208	3,244	(x)	2	17,308	3,012	229	6,256	242	(x)	
1974, avg.	12,133	8,774	3,477	(x)	3	16,653	2,635	218	6,112	265	(x)	
1975, avg.	12,442	8,375	4,105	(x)	6	16,322	1,951	204	6,056	271	(x)	
1976, avg.	13,416	8,132	5,287	(x)	8	17,461	2,026	215	7,313	285	(x)	
1977, avg.	14,802	8,245	6,515	21	50	18,431	2,193	193	8,807	348	7	
1978, avg.	14,739	8,707	6,356	162	158	18,847	2,008	204	8,363	376	67	
1979, avg.	14,648	8,552	6,519	67	235	18,513	1,937	236	8,456	430	91	
1980, avg.	13,481	8,597	5,263	44	287	17,056	1,846	258	6,909	466	108	
1981, avg.	12,470	8,572	4,396	256	228	16,058	1,599	367	5,996	594	230	
1982, avg.	11,774	8,649	3,468	165	236	15,296	1,625	579	5,113	644	294	
1983, avg.	11,685	8,688	3,329	234	164	15,231	1,722	575	5,051	723	379	
1984, avg.	12,044	8,879	3,426	197	181	15,726	2,011	541	5,437	796	451	
1985, avg.	12,002	8,971	3,201	118	204	15,726	1,866	577	5,067	814	493	
1st qtr.	11,395	8,951	2,551	124	184	15,859	1,797	595	4,348	791	462	
2d qtr.	12,064	9,066	3,443	162	237	15,486	1,903	483	5,345	821	477	
3d qtr.	12,141	8,901	3,157	138	195	15,536	1,721	548	4,878	807	469	
4th qtr.	12,396	8,968	3,640	51	201	16,025	2,044	681	5,685	814	493	
1986,* avg.	12,498	8,872	3,600	50	137	15,964	1,802	653	5,402	825	502	
1st qtr.	11,983	8,940	3,115	45	178	16,056	1,775	630	4,891	838	497	
2d qtr.	13,005	8,804	4,080	54	* 96	15,868	1,828	* 675	5,908	825	502	

X Not applicable. <sup>1</sup> Includes Strategic Petroleum Reserve. <sup>2</sup> Crude oil (including Strategic Petroleum Reserve imports) plus refined products. <sup>3</sup> End of year or quarter. <sup>4</sup> Preliminary. <sup>5</sup> June estimated.

Source: U.S. Energy Information Administration, *Monthly Energy Review*, April 1986.

## No. 952. ENERGY PRODUCING COMPANIES—SELECTED FINANCIAL AND INVESTMENT INDICATORS, 1978 TO 1984, AND BY LINE-OF-BUSINESS, 1984

[Based on data from 26 major publicly-owned domestic crude oil producing companies which either had at least one percent of domestic production or reserves of oil, natural gas, coal, or uranium, or at least one percent of refining capacity or petroleum product sales. Minus sign(-) indicates negative]

ITEM	1978	1979	1980	1981	1982	1983	1984, prel.					
							Total <sup>1</sup>	Line-of-business				
								Petro- leum	Coal	Nuclear	Other en- er- gy	Non- en- er- gy
INCOME STATEMENT (bil. dol.)												
Operating revenues.....	294.8	392.6	518.6	575.7	549.7	511.0	517.4	426.7	5.8	.6	1.2	100.0
Operating expenses.....	265.0	345.8	455.9	520.8	504.2	462.8	467.3	376.7	5.2	.8	1.4	96.1
Operating income.....	29.8	46.8	62.7	54.8	45.5	48.2	50.1	50.0	.7	-.2	-.2	3.8
Pretax income.....	30.2	48.6	66.9	60.0	45.2	47.4	47.6	52.8	.8	-.2	-.1	4.3
Net income.....	13.9	23.5	31.0	30.0	21.8	21.9	21.3	23.6	.6	-.1	(z)	2.9
Funds from operations <sup>2</sup> .....	31.2	45.4	59.0	61.6	60.4	60.7	63.6	(NA)	(NA)	(NA)	(NA)	(NA)
BALANCE SHEET (bil. dol.)												
Net property, plant, and equip- ment.....	138.1	159.3	188.9	224.9	265.5	278.4	292.4	220.6	9.0	.6	3.7	53.4
Net investment in place <sup>3</sup> .....	148.1	169.9	202.6	240.8	282.5	296.3	309.1	227.7	9.2	.6	4.1	60.3
Total assets.....	237.1	282.8	333.0	372.5	411.9	421.8	442.9	(NA)	(NA)	(NA)	(NA)	(NA)
RATIOS (percent)												
Net income to operating reve- nues.....	4.7	6.0	6.0	5.2	4.0	4.3	4.1	5.5	9.8	-12.8	-.6	2.9
Net income to total assets.....	5.9	8.3	9.3	8.0	5.3	5.2	5.0	(NA)	(NA)	(NA)	(NA)	(NA)
Net income to stockholders' equity.....	12.8	18.8	21.1	18.1	11.9	11.4	12.1	(NA)	(NA)	(NA)	(NA)	(NA)
Long-term debt to stockholders' equity <sup>4</sup> .....	35.6	33.7	31.5	32.2	37.1	34.8	49.5	(NA)	(NA)	(NA)	(NA)	(NA)
Long-term debt to total assets <sup>4</sup> .....	16.3	14.9	13.9	14.3	16.6	15.9	20.6	(NA)	(NA)	(NA)	(NA)	(NA)

- Represents zero. NA Not available. Z Less than \$50 million. <sup>1</sup> Includes items which cannot be allocated and adjusted for duplication, not shown separately.

<sup>2</sup> The sum of net income, depreciation, depletion and amortization, deferred taxes, dry hole expenses, etc. <sup>3</sup> Composed of net property, plant and equipment plus investment and advances to unconsolidated subsidiaries. <sup>4</sup> Long-term debt includes amounts applicable to capitalized leases.

Source: U.S. Energy Information Administration, *Performance Profiles of Major Energy Producers*, annual, and unpublished data.

### NO. 953. PETROLEUM AND COAL PRODUCTS—SALES, NET PROFIT, AND PROFIT PER DOLLAR OF SALES: 1974 TO 1985

[Represents SIC group 29. Profit rates are averages of quarterly figures at annual rates]

ITEM	Unit	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Sales .....	Bil. dol.	113.5	121.8	141.3	162.3	180.3	242.7	333.2	376.1	357.1	312.7	338.4	320.9
Net profit:													
Before income taxes .....	Bil. dol.	17.7	13.3	16.9	17.8	19.2	32.2	39.1	35.3	27.8	27.1	24.5	17.7
After income taxes .....	Bil. dol.	14.5	9.3	11.7	12.2	12.8	21.9	25.5	23.7	19.7	19.3	17.2	12.7
Depreciation <sup>1</sup> .....	Bil. dol.	5.1	5.6	5.9	6.6	7.7	9.5	11.6	13.7	16.3	17.5	20.7	22.1
Profits per dollar of sales:													
Before income taxes .....	Cents .....	15.6	10.9	12.0	11.0	10.6	13.3	11.7	9.4	7.8	8.7	7.2	5.5
After income taxes .....	Cents .....	12.8	7.6	8.3	7.5	7.1	9.0	7.7	6.3	5.5	6.2	5.1	4.0
Profits on stockholders' equity:													
Before income taxes .....	Percent ..	25.8	17.9	20.3	19.9	19.8	30.0	30.7	25.6	18.7	17.8	14.3	11.7
After income taxes .....	Percent ..	21.1	12.5	14.1	13.6	13.3	20.4	20.0	17.2	13.2	12.7	10.0	8.5

<sup>1</sup> Includes depletion and accelerated amortization of emergency facilities.

Source: Through 1981, U.S. Federal Trade Commission and, beginning 1982, U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*.

### NO. 954. MAJOR PETROLEUM COMPANIES—FINANCIAL DATA SUMMARY: 1973 TO 1985

[Data represent a composite of approximately 41 major worldwide petroleum companies aggregated on a consolidated, total company basis]

ITEM	1973	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
FINANCIAL DATA (bil. dol.)												
Net income .....	11.8	11.6	14.3	15.1	16.0	32.8	32.9	29.2	21.1	20.6	22.7	18.0
Depreciation, depletion, etc. ....	10.5	11.3	14.8	18.3	19.8	24.9	32.5	34.9	37.2	37.4	45.3	52.0
Cash flow <sup>1</sup> .....	22.3	22.8	29.1	33.4	35.8	57.7	65.4	64.1	58.3	58.1	68.0	71.0
Dividends paid .....	4.0	4.7	5.4	6.3	6.8	8.0	9.3	10.6	10.6	10.5	11.6	12.0
Net internal funds available for investment or debt repayment <sup>2</sup> .....	18.3	18.1	23.7	27.1	29.0	49.7	56.1	53.5	47.7	47.6	56.4	59.0
Capital and exploratory expenditures .....	16.3	26.9	30.7	31.8	37.1	51.1	62.1	79.2	67.8	50.7	57.5	58.1
Long-term capitalization .....	102.9	121.1	142.9	150.1	168.0	196.9	211.4	248.1	243.8	240.0	285.7	269.1
Long-term debt .....	22.5	28.9	39.1	38.4	45.1	48.1	49.8	59.2	62.6	61.0	95.8	91.4
Preferred stock .....	4	4	3	9	9	9	2.0	2.0	3.5	3.5	5.2	3.7
Common stock and retained earnings <sup>3</sup> .....	80.0	91.9	103.5	110.8	122.0	147.9	159.6	186.9	177.7	175.5	184.7	174.0
Excess of expenditures over cash income <sup>4</sup> .....	-2.0	8.9	6.9	4.7	8.1	1.4	6.0	25.7	20.1	3.1	1.1	-9
RATIOS <sup>5</sup> (percent)												
Long-term debt to long-term capitalization .....	22.0	23.8	27.4	25.6	26.8	24.4	23.6	23.8	25.7	25.4	33.5	34.0
Net income to total average capital .....	12.0	10.0	10.7	10.1	9.9	17.8	17.0	10.4	8.6	8.8	8.6	6.8
Net income to average common equity .....	15.6	13.1	14.3	13.9	13.5	24.0	22.5	17.7	11.5	12.0	12.5	10.6

<sup>1</sup> Generally represents internally-generated funds from operations. Sum of net income and noncash charges such as depreciation, depletion, and amortization. <sup>2</sup> Cash flow minus dividends paid. <sup>3</sup> Includes common stock, capital surplus, and earned surplus accounts after adjustments. <sup>4</sup> Capital and exploratory expenditures plus dividends paid minus cash flow.

<sup>5</sup> Represent approximate year-to-year comparisons because of changes in the makeup of the group due to mergers and other corporate changes.

Source: Carl H. Pforzheimer & Co., New York, NY, *Comparative Oil Company Statements, 1985*, and earlier reports.

### NO. 955. ELECTRIC UTILITY SALES AND AVERAGE PRICES, BY END-USE SECTORS: 1970 TO 1985

[Prior to 1980, covers Class A and B privately-owned electric utilities; thereafter, Class A utilities whose electric operating revenues were \$100 million or more during the previous year]

YEAR	SALES (bil. kWh)				AVERAGE PRICE OF ELECTRICITY SOLD (cents per kWh)							
	Total <sup>1</sup>	Residential	Com-mercial	Indus-trial	Current dollars				Constant (1982) dollars <sup>2</sup>			
					Total <sup>1</sup>	Residential	Com-mercial	Indus-trial	Total <sup>1</sup>	Residential	Com-mercial	Indus-trial
1970 .....	1,392	466	307	571	1.67	2.22	2.08	1.02	3.98	5.29	4.95	2.43
1971 .....	1,470	500	329	599	1.77	2.32	2.20	1.10	3.99	5.23	4.95	2.48
1972 .....	1,595	539	359	641	1.86	2.42	2.29	1.16	4.00	5.20	4.92	2.49
1973 .....	1,713	579	388	686	1.98	2.54	2.41	1.25	3.96	5.13	4.87	2.53
1974 .....	1,706	578	385	685	2.49	3.10	3.04	1.69	4.61	5.74	5.63	3.13
1975 .....	1,747	588	403	688	2.92	3.51	3.45	2.07	4.92	5.92	5.82	3.49
1976 .....	1,855	606	425	754	3.09	3.73	3.69	2.21	4.90	5.91	5.85	3.50
1977 .....	1,948	645	447	786	3.42	4.05	4.09	2.50	5.08	6.02	6.08	3.71
1978 .....	2,018	674	461	809	3.69	4.31	4.36	2.79	5.11	5.97	6.04	3.88
1979 .....	2,071	683	473	842	3.99	4.64	4.68	3.05	5.08	5.90	5.95	3.88
1980 .....	2,094	717	488	815	4.73	5.36	5.48	3.69	5.52	6.25	6.38	4.31
1981 .....	2,147	722	514	828	5.46	6.20	6.29	4.29	5.81	6.60	6.69	4.56
1982 .....	2,086	730	526	745	6.13	6.86	6.86	4.95	6.13	6.85	6.88	4.95
1983 .....	2,151	751	544	775	6.30	7.18	7.02	4.96	6.06	6.91	6.76	4.77
1984 .....	2,278	778	578	841	6.52	7.54	7.33	5.04	6.03	6.98	6.78	4.66
1985, prel. ....	2,309	791	606	827	6.72	7.79	7.48	5.17	6.02	6.97	6.70	4.63

<sup>1</sup> Includes other sectors not shown separately.

<sup>2</sup> Based on the GNP implicit price deflator; see table 766.

# **NO. 956. ELECTRIC UTILITY INDUSTRY—ELECTRIC ENERGY PRODUCTION, AND NET SUMMER CAPABILITY BY TYPE OF PRIME MOVER, AND CONSUMPTION OF FUELS: 1960 TO 1985**

[Production for calendar years; other data as of December 31, 1960 excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1970*, series S 32-52, S 78-82, and S 86-107]

ITEM	Unit	1960	1965	1970	1975	1980	1981	1982	1983	1984	1985
<b>PRODUCTION</b>											
Total.....	Bil. kWh.....	756	1,055	1,532	1,918	2,286	2,295	2,241	2,310	2,416	2,469
Average annual change <sup>1</sup> .....	Percent.....	6.6	6.9	7.8	4.6	3.6	.4	-2.3	3.1	4.6	2.2
Production, kWh per kw of net summer capability <sup>2</sup> .....	Rate.....	4,522	4,484	4,554	3,903	3,952	3,836	3,652	3,720	3,805	3,775
Privately owned.....	Bil. kWh.....	579	809	1,183	1,487	1,783	1,786	1,712	1,764	1,849	1,918
Percent of total utilities.....	Percent.....	76.8	76.7	77.2	77.5	78.0	77.8	76.4	76.4	76.5	77.7
Publicly owned.....	Bil. kWh.....	175	246	349	431	503	509	530	546	567	552
Municipal.....	Bil. kWh.....	37	50	71	82	87	81	77	73	75	74
Federal.....	Bil. kWh.....	112	145	186	221	235	232	241	258	254	233
Cooperatives and other.....	Bil. kWh.....	26	51	91	128	182	196	212	215	239	245
Source of energy:											
Coal <sup>3</sup> .....	Percent.....	53.3	54.1	46.0	44.6	51.0	52.7	53.4	54.8	55.9	57.2
Nuclear.....	Percent.....	.1	.3	1.4	9.0	11.0	11.9	12.6	12.7	13.6	15.5
Oil.....	Percent.....	6.4	6.1	12.0	15.1	10.6	9.0	6.5	6.3	5.0	4.1
Gas.....	Percent.....	20.9	21.0	24.3	15.6	15.1	15.1	13.6	11.9	12.3	11.8
Hydro.....	Percent.....	19.3	18.4	16.2	15.6	12.1	11.4	13.8	14.4	13.3	11.4
Type of prime mover: <sup>4</sup>											
Hydro.....	Bil. kWh.....	146	194	248	300	276	261	309	332	321	282
Steam conventional <sup>5</sup> .....	Bil. kWh.....	603	852	1,240	1,414	1,726	1,730	1,628	1,661	1,742	1,778
Gas turbine.....	Bil. kWh.....	1	4	16	22	24	22	14	14	15	14
Steam nuclear.....	Bil. kWh.....	1	4	22	173	251	279	283	294	328	364
Internal combustion.....	Bil. kWh.....	4	5	6	6	4	3	2	2	2	2
<b>NET SUMMER CAPABILITY</b>											
Total <sup>6</sup> .....	Mil. kW.....	167	235	336	491	579	598	614	621	635	654
Average annual change <sup>1</sup> .....	Percent.....	7.9	7.0	7.5	7.9	3.4	3.4	2.6	1.2	2.3	3.0
Hydro.....	Mil. kW.....	36	51	64	78	82	82	83	84	85	90
Steam conventional <sup>7</sup> .....	Mil. kW.....	128	179	248	333	397	411	421	425	431	435
Gas turbine.....	Mil. kW.....	-	1	13	37	43	43	44	43	44	43
Steam nuclear.....	Mil. kW.....	(2)	1	7	37	52	56	60	63	70	80
Internal combustion.....	Mil. kW.....	3	3	4	5	5	5	5	5	5	5
<b>NUMBER OF PRIME MOVERS</b>											
Prime movers, total <sup>8</sup> .....	Number.....	3,435	3,290	3,533	3,587	3,575	3,567	3,515	3,486	3,475	3,463
Hydro.....	Number.....	1,331	1,231	1,188	1,146	1,142	1,147	1,168	1,182	1,194	1,216
Steam conventional.....	Number.....	1,055	1,059	998	937	934	937	916	910	905	883
Gas turbine.....	Number.....	-	1	323	497	541	540	541	542	544	541
Steam nuclear.....	Number.....	5	9	16	42	51	53	53	55	55	62
Internal combustion.....	Number.....	1,044	991	1,008	965	907	890	837	797	777	761
<b>CONSUMPTION OF FUELS</b>											
Net generation by fuel <sup>9</sup> .....	Bil. kWh.....	610	861	1,284	1,618	2,010	2,034	1,932	1,978	2,095	2,189
Average annual change <sup>1</sup> .....	Percent.....	6.9	7.2	8.3	4.7	4.4	1.2	-5.0	2.4	5.9	4.5
Coal.....	Bil. kWh.....	403	571	704	853	1,162	1,203	1,192	1,259	1,342	1,401
Percent of total.....	Percent.....	66.1	66.3	54.8	52.7	57.8	59.1	61.7	63.7	64.1	64.1
Petroleum.....	Bil. kWh.....	48	65	184	289	246	206	147	144	120	100
Gas.....	Bil. kWh.....	158	222	373	300	346	346	305	274	297	282
Nuclear.....	Bil. kWh.....	1	4	22	173	251	273	283	294	328	364
Fuel consumed:											
Total energy equivalent.....	Quad. Btu.....	6.57	8.94	13.40	15.19	18.57	18.55	17.49	17.75	18.53	18.77
Coal.....	Mil. sh. tons.....	177	245	320	406	569	597	594	625	664	693
Oil.....	Mil. bbl.....	88	115	339	506	421	352	251	247	206	175
Gas.....	Bil. cu. ft.....	1,725	2,321	3,932	3,158	3,682	3,640	3,226	2,911	3,111	3,030

- Represents zero. Z Less than .5 million. <sup>1</sup> Change from prior year shown; for 1960, change from 1955. For explanation of average annual percent change, see Guide to Tabular Presentation. <sup>2</sup> Net summer capability is the steady hourly output that generating equipment is expected to supply to system load, exclusive of auxiliary power as demonstrated by test at the time of summer peak demand. <sup>3</sup> Includes small percentage from wood and waste, geothermal, and petroleum coke.

<sup>4</sup> A prime mover is the engine, turbine, water wheel, or similar machine which drives an electric generator. <sup>5</sup> Fossil fuels only. <sup>6</sup> Includes wind, solar thermal, and photovoltaic, not shown separately. <sup>7</sup> Includes fossil steam, wood, and waste. <sup>8</sup> Each prime mover type in combination plants counted separately prior to 1975. <sup>9</sup> Includes small amounts of wood, waste, wind, geothermal, solar thermal, and photovoltaic.

Source: 1960-1970, U.S. Federal Power Commission, *Electric Power Statistics*, and press releases; thereafter, U.S. Energy Information Administration, 1975-1980, *Power Production, Fuel Consumption, and Installed Capacity Data—Annual*, and unpublished data; thereafter, *Electric Power Annual*, and unpublished data.

### NO. 957. ELECTRIC UTILITY INDUSTRY—CAPABILITY, PEAK LOAD, AND CAPACITY MARGIN: 1970 TO 1985

[Excludes Alaska and Hawaii. Capability represents the maximum kilowatt output with all power sources available and with hydraulic equipment under actual water conditions, allowing for maintenance, emergency outages, and system operating requirements. Capacity margin is the difference between capability and peak load]

YEAR	CAPABILITY AT THE TIME OF—				NON-COINCIDENT PEAK LOAD		CAPACITY MARGIN			
	Summer peak load (1,000 kW)		Winter peak load <sup>1</sup> (1,000 kW)		Summer	Winter <sup>1</sup>	Summer		Winter	
	Amount	Change from prior year	Amount	Change from prior year			Amount (1,000 kW)	Per- cent of capa- bility	Amount (1,000 kW)	Per- cent of capa- bility
1970.....	326,900	<sup>2</sup> 26,600	339,050	<sup>2</sup> 27,600	274,650	248,550	52,250	16.0	90,500	26.7
1971.....	353,250	26,350	366,700	27,500	292,100	281,650	61,150	17.3	105,050	28.6
1972.....	381,700	28,450	394,050	27,350	319,150	290,950	62,550	16.4	103,100	26.2
1973.....	415,500	33,800	433,150	39,100	343,900	295,100	71,600	17.2	138,050	31.9
1974.....	444,400	28,900	467,400	34,250	349,250	302,500	95,150	21.4	164,900	35.3
1975.....	479,300	34,900	492,450	25,050	356,800	331,100	122,500	25.6	161,350	32.9
1976.....	498,750	19,450	511,000	18,550	370,900	348,850	127,850	25.6	161,150	31.5
1977.....	516,000	17,250	537,600	26,600	396,350	360,200	119,650	25.2	177,400	33.0
1978.....	545,700	29,700	561,550	23,950	408,050	383,100	135,650	24.9	178,450	31.8
1979 <sup>3</sup> .....	544,506	-1,194	554,525	-7,025	398,424	368,876	146,082	26.8	185,649	33.5
1980.....	558,237	13,731	572,195	17,670	427,058	384,567	131,179	23.5	187,828	32.8
1981.....	572,219	13,982	586,589	14,374	428,255	391,106	143,924	25.2	198,769	32.2
1982.....	586,142	13,923	598,066	11,497	414,909	373,318	171,233	29.2	224,051	37.5
1983.....	596,449	10,307	612,453	14,387	447,526	410,779	148,923	25.0	201,874	32.9
1984.....	604,240	7,791	622,125	9,673	451,150	436,374	153,090	25.3	185,751	29.9
1985.....	621,597	17,357	636,475	14,350	460,503	423,680	161,094	25.9	212,815	33.4

<sup>1</sup> Prior to 1973, data was for the month of December. <sup>2</sup> Change from 1969. <sup>3</sup> Data are not entirely comparable with prior years due to change in data source.

Source: Edison Electric Institute, Washington, DC, *Statistical Yearbook of the Electric Utility Industry*, annual.

### NO. 958. ELECTRIC ENERGY—PRODUCTION AND INSTALLED GENERATING CAPACITY, BY STATE: 1975 TO 1985

[Capacity as of Dec. 31. Covers utilities for public use]

DIVISION AND STATE	PRODUCTION (bil. kWh)			INSTALLED CAPACITY (mil. kW)			DIVISION AND STATE	PRODUCTION (bil. kWh)			INSTALLED CAPACITY (mil. kW)		
	1975	1980	1985	1975	1980	1985		1975	1980	1985	1975	1980	1985
U.S.....	1,917.6	2,286.4	2,469.8	508.3	613.5	698.1	S.A.—Con.....	35.3	34.3	42.1	9.7	11.7	13.6
N.E.....	69.9	78.2	81.4	20.4	21.1	21.4	VA.....	61.4	70.8	79.5	11.9	15.2	15.2
ME.....	7.9	7.9	9.1	1.7	2.4	2.4	WV.....	53.3	72.1	74.5	15.0	15.6	19.7
NH.....	4.7	6.0	6.0	1.6	1.6	1.4	NC.....	38.6	41.9	53.6	10.7	11.7	15.1
VT.....	4.5	3.8	4.2	.9	.9	1.1	SC.....	41.7	63.3	80.9	13.0	16.3	18.7
MA.....	30.5	34.8	36.3	9.4	9.6	10.0	GA.....	77.8	95.9	96.4	21.7	29.0	34.2
RI.....	.8	1.0	.5	.3	.3	.3	FL.....	171.8	214.1	221.5	46.1	53.3	61.9
CT.....	21.4	24.7	25.2	6.4	6.3	6.2	E.S.C.....	51.1	57.1	65.0	12.1	15.5	16.8
M.A.....	238.8	260.5	281.2	67.5	78.4	82.3	KN.....	54.6	60.2	66.6	14.3	15.9	18.0
NY.....	107.3	108.6	111.8	28.4	31.4	32.5	AL.....	54.7	78.3	72.7	15.2	18.2	20.0
NJ.....	23.2	29.4	34.4	11.4	12.6	13.4	MS.....	11.4	18.5	19.2	4.6	5.5	7.1
PA.....	108.2	122.5	135.0	27.7	34.4	36.4	W.S.C.....	234.0	313.1	342.5	65.8	84.7	98.7
E.N.C.....	356.4	397.0	408.6	91.5	107.9	117.0	AR.....	13.7	19.7	35.6	4.9	7.2	9.3
OH.....	102.6	110.2	110.8	24.8	27.4	27.3	LA.....	39.2	45.7	44.3	11.6	12.9	18.4
IN.....	59.4	70.6	78.5	13.4	17.1	21.3	OK.....	33.3	44.6	44.1	7.9	11.3	13.0
IL.....	92.8	103.4	103.7	25.6	29.9	32.7	TX.....	147.8	203.0	218.5	41.4	53.3	59.0
MI.....	68.2	74.8	74.5	18.9	22.7	24.1	Mt.....	111.5	158.8	201.6	27.6	35.8	46.3
WI.....	33.5	37.8	41.2	8.9	10.7	11.6	MT.....	11.9	15.5	18.8	2.4	3.2	4.9
W.N.C.....	132.4	168.2	185.1	36.9	49.0	57.3	ID.....	10.3	9.5	10.9	1.7	2.0	2.0
MN.....	25.3	31.5	31.0	6.8	8.8	8.5	WY.....	11.9	22.4	35.7	2.8	4.1	5.9
IA.....	15.9	21.8	23.5	5.4	7.3	8.6	CO.....	16.6	23.6	28.8	4.3	6.1	7.3
MO.....	40.4	48.9	57.3	11.1	13.8	16.6	NM.....	19.7	24.7	27.1	4.1	5.0	5.5
ND.....	8.3	15.8	22.1	1.7	3.4	4.8	AZ.....	21.7	36.9	46.2	7.5	9.4	12.1
SD.....	10.1	8.6	7.8	2.1	2.2	2.5	UT.....	5.8	12.1	15.4	1.2	2.1	3.0
NE.....	13.3	16.3	15.9	3.8	5.1	6.0	NV.....	13.7	14.1	16.7	3.5	3.9	5.6
KS.....	19.1	25.1	27.5	6.0	8.3	10.5	Pac.....	260.6	278.6	280.1	60.0	71.9	82.6
S.A.....	342.3	417.8	467.9	92.5	111.5	129.7	WA.....	93.0	92.3	93.1	16.8	23.0	23.7
DE.....	6.0	6.7	8.5	1.5	1.6	1.9	OR.....	34.5	36.6	48.2	7.6	8.5	10.6
MD.....	26.9	32.2	32.3	7.6	9.2	10.4	CA.....	125.4	140.3	127.8	33.7	37.8	45.1
DC.....	1.2	.7	.1	1.3	1.2	.9	AK.....	2.2	3.1	4.3	.7	1.1	1.7
							HI.....	5.5	6.5	6.6	1.2	1.4	1.5

Source: U.S. Energy Information Administration, 1975 and 1980, *Power Production, Fuel Consumption, and Installed Capacity Data*, annual; 1985, *Electric Power Annual and Inventory of Power Plants in the United States*, 1985.

**No. 959. PRIVATELY AND PUBLICLY OWNED ELECTRIC UTILITY GENERATING PLANTS—NUMBER AND CAPACITY, BY TYPE AND SIZE OF PRIME MOVER: 1970 TO 1985**

[Capacity as of Dec. 31. Each prime mover type in combination plants is counted separately. For definition of prime mover, see table 956, footnote 3]

TYPE AND SIZE OF PRIME MOVER	PRIVATELY OWNED						PUBLICLY OWNED					
	Number of prime movers			Capacity (mil. kW)			Number of prime movers			Capacity (mil. kW)		
	1970	1980	1985	1970	1980	1985	1970	1980	1985	1970	1980	1985
<b>Total</b> .....	<b>2,037</b>	<b>2,094</b>	<b>2,010</b>	<b>262.8</b>	<b>477.0</b>	<b>530.4</b>	<b>1,496</b>	<b>1,481</b>	<b>1,453</b>	<b>78.8</b>	<b>136.6</b>	<b>158.3</b>
Steam, conventional.....	672	626	595	222.4	361.4	391.8	326	308	288	37.7	63.1	77.1
Under 100,000 kW.....	220	134	100	8.2	5.6	4.7	254	195	159	6.9	6.2	6.1
100,000–500,000 kW.....	299	239	223	77.1	64.0	60.1	58	75	84	12.3	17.4	20.8
Over 500,000 kW.....	153	253	272	137.1	291.8	327.0	14	38	45	18.5	39.6	50.3
Steam, nuclear.....	15	43	52	5.7	48.0	68.2	1	8	10	.8	8.5	12.2
Over 500,000 kW.....	7	37	49	4.5	46.8	67.6	1	7	9	.8	8.5	12.1
Hydro.....	754	732	750	18.9	24.2	27.6	434	410	466	36.3	52.1	55.4
Over 25,000 kW.....	165	173	179	15.6	21.0	24.3	184	186	198	35.1	51.0	54.1
Gas turbine.....	265	411	402	14.4	41.6	41.4	58	130	139	1.1	9.1	10.1
Over 25,000 kW.....	126	281	281	12.1	39.4	39.4	12	65	70	.4	8.0	9.0
Internal combustion.....	331	282	211	1.3	1.8	1.5	677	625	550	3.0	3.7	3.5
Under 5,000 kW.....	238	166	112	.5	.4	.2	471	358	285	1.0	.7	.6
Over 5,000 kW.....	93	116	99	.9	1.5	1.2	206	267	255	2.0	3.0	2.9

Source: U.S. Energy Information Administration, unpublished data.

**No. 960. ELECTRIC ENERGY SALES, BY CLASS OF SERVICE, 1970 TO 1985, AND BY STATE, 1985**

[In billions of kilowatthours]

YEAR, DIVISION, AND STATE	Total <sup>1</sup>	Residential	Commercial	Industrial	DIVISION AND STATE	Total <sup>1</sup>	Residential	Commercial	Industrial
1970.....	1,392.3	466.3	306.7	570.9	<b>South Atlantic</b> .....	<b>416.5</b>	<b>161.6</b>	<b>111.1</b>	<b>128.9</b>
1973.....	1,712.9	579.2	388.3	686.1	Delaware.....	5.9	1.6	1.6	2.5
1975.....	1,747.1	598.1	403.0	687.7	Maryland <sup>2</sup> .....	48.2	15.7	13.2	18.3
1979.....	2,071.1	682.8	473.3	841.9	Virginia.....	58.5	23.2	15.2	13.5
1980.....	2,094.4	717.5	488.2	815.1	West Virginia.....	21.8	6.8	4.5	10.4
1981.....	2,147.1	722.3	514.3	825.7	North Carolina.....	71.0	26.2	17.0	26.3
1982.....	2,086.4	729.5	526.4	744.9	South Carolina.....	42.5	13.7	8.7	19.0
1983.....	2,151.0	750.9	543.8	776.0	Georgia.....	60.0	21.8	15.1	22.1
1984.....	2,278.4	777.7	578.3	840.6	Florida.....	108.7	52.5	35.9	16.7
<b>1985, total</b> .....	<b>2,309.5</b>	<b>791.0</b>	<b>609.0</b>	<b>824.5</b>	<b>East South Central</b> .....	<b>183.2</b>	<b>67.1</b>	<b>40.5</b>	<b>71.2</b>
<b>New England</b> .....	<b>90.0</b>	<b>31.9</b>	<b>30.1</b>	<b>25.8</b>	Kentucky.....	39.3	14.5	8.1	14.6
Maine.....	10.3	3.5	2.3	4.4	Tennessee.....	68.5	25.5	16.5	25.5
New Hampshire.....	6.9	2.7	.5	2.7	Alabama.....	49.7	16.8	10.0	22.2
Vermont.....	3.9	1.5	.9	1.3	Mississippi.....	25.7	10.3	6.9	8.8
Massachusetts.....	38.8	13.1	14.8	9.8	<b>West South Central</b> .....	<b>334.4</b>	<b>114.5</b>	<b>80.0</b>	<b>125.9</b>
Rhode Island.....	5.5	2.0	2.0	1.9	Arkansas.....	23.1	9.0	5.1	8.5
Connecticut.....	24.5	9.1	8.7	6.3	Louisiana.....	58.8	19.2	11.6	24.1
<b>Middle Atlantic</b> .....	<b>269.1</b>	<b>82.3</b>	<b>84.1</b>	<b>87.9</b>	Oklahoma.....	39.4	15.3	8.8	11.3
New York.....	114.8	32.5	40.0	29.7	Texas.....	213.1	71.0	53.4	83.1
New Jersey.....	53.8	17.1	20.6	15.6	<b>Mountain</b> .....	<b>132.6</b>	<b>44.4</b>	<b>37.7</b>	<b>46.2</b>
Pennsylvania.....	100.6	32.8	23.5	42.6	Montana.....	11.8	3.5	2.5	5.6
<b>East North Central</b> .....	<b>408.3</b>	<b>119.6</b>	<b>91.1</b>	<b>181.1</b>	Idaho.....	16.6	5.8	4.7	6.0
Ohio.....	122.7	33.6	24.9	60.0	Wyoming.....	8.7	1.9	1.6	5.1
Indiana.....	63.9	19.8	11.4	31.8	Colorado.....	27.3	10.4	11.6	5.0
Illinois.....	107.0	29.5	28.3	40.8	New Mexico.....	9.6	2.8	2.7	2.9
Michigan.....	73.6	21.9	16.2	33.3	Arizona.....	32.4	11.9	10.0	9.4
Wisconsin.....	41.1	14.7	10.3	15.2	Utah.....	14.4	4.0	3.0	6.6
<b>West North Central</b> .....	<b>169.3</b>	<b>65.0</b>	<b>40.8</b>	<b>58.2</b>	Nevada.....	11.7	4.1	1.7	5.5
Minnesota.....	38.5	13.5	6.4	17.7	<b>Pacific</b> .....	<b>306.2</b>	<b>104.6</b>	<b>93.7</b>	<b>98.5</b>
Iowa.....	27.4	10.2	6.2	9.7	Washington.....	82.4	29.8	16.6	31.7
Missouri.....	52.7	21.2	14.1	15.7	Oregon.....	34.7	13.8	9.3	11.2
North Dakota.....	8.5	3.1	1.2	2.0	California.....	178.8	57.6	64.9	51.8
South Dakota.....	5.5	2.7	1.1	1.5	Alaska.....	3.6	1.4	1.4	.6
Nebraska.....	15.3	6.2	4.3	4.0	Hawaii.....	6.7	1.9	1.5	3.3
Kansas.....	23.4	8.1	7.5	7.5					

<sup>1</sup> Includes other service, not shown separately.

<sup>2</sup> Includes District of Columbia.

Source: U.S. Energy Information Administration, *Electric Power Annual*.

## NO. 961. ELECTRIC UTILITIES—GENERATION, SALES, REVENUE, AND CUSTOMERS: 1970 TO 1985

[Sales and revenue are to and from ultimate customers]

CLASS	Unit	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Generation <sup>1</sup>	Bil. kWh	1,532	1,918	2,038	2,124	2,206	2,247	2,286	2,295	2,241	2,310	2,416	2,469
Sales <sup>2</sup>	Bil. kWh	1,391	1,733	1,850	1,951	2,018	2,084	2,126	2,151	2,100	2,160	2,281	2,315
Residential or domestic	Bil. kWh	448	586	613	652	679	696	734	730	733	750	783	797
Percent of total	Percent	32.2	33.8	33.1	33.4	33.7	33.4	34.5	34.0	34.9	34.7	34.3	34.4
Commercial <sup>3</sup>	Bil. kWh	313	418	441	469	481	495	524	522	517	546	578	608
Industrial <sup>4</sup>	Bil. kWh	573	682	725	757	782	818	794	820	770	783	835	822
Revenue <sup>5</sup>	Bil. dol	22.1	46.9	53.5	62.6	69.9	79.6	95.5	110.6	121.6	129.6	143.1	149.8
Residential or domestic	Bil. dol	9.4	18.8	21.1	24.7	27.4	30.8	37.6	42.4	47.2	51.2	58.1	59.0
Percent of total	Percent	42.7	40.1	39.6	39.4	39.2	38.7	39.4	38.3	38.8	39.5	39.2	39.4
Commercial <sup>3</sup>	Bil. dol	6.3	13.5	15.2	18.0	19.7	22.3	27.4	31.3	34.2	37.1	41.3	44.2
Industrial <sup>4</sup>	Bil. dol	5.4	12.7	15.0	17.8	20.3	23.8	27.3	33.0	35.9	35.6	40.8	41.4
Ultimate customers, Dec. 31 <sup>6</sup>	Million	72.5	81.8	83.8	85.6	87.7	89.8	92.7	94.0	95.3	97.0	99.4	101.5
Residential or domestic	Million	64.0	72.6	74.2	75.9	77.8	79.6	82.2	83.3	84.4	85.8	87.9	89.7
Commercial <sup>3</sup>	Million	7.9	8.6	8.8	8.9	9.1	9.4	9.7	9.6	10.0	10.3	10.6	10.7
Industrial <sup>4</sup>	Million	19.4	21.4	22.4	23.1	23.3	23.5	23.2	23.0	22.2	22.5	23.2	23.0
Avg. kWh used per customer	1,000	7.1	8.2	8.4	8.7	8.8	8.8	9.0	8.8	8.7	8.8	9.0	9.0
Residential <sup>3</sup>	1,000	40.0	49.0	50.7	52.9	53.1	53.2	54.5	53.4	52.3	53.8	55.2	57.4
Commercial <sup>3</sup>	Dollar	307	579	646	740	807	897	1,040	1,184	1,285	1,349	1,453	1,489
Residential <sup>3</sup>	Dollar	149	262	288	329	357	391	462	512	583	602	644	663
Commercial <sup>3</sup>	Dollar	804	1,580	1,754	2,031	2,177	2,394	2,848	3,207	3,452	3,660	3,940	4,171
Avg. revenue per kWh sold	Cents	1.59	2.70	2.89	3.21	3.46	3.82	4.49	5.17	5.79	6.00	6.27	6.47
Residential <sup>3</sup>	Cents	2.10	3.21	3.45	3.78	4.03	4.43	5.12	5.80	6.44	6.83	7.17	7.40
Commercial <sup>3</sup>	Cents	2.01	3.23	3.46	3.84	4.10	4.50	5.22	6.00	6.61	6.80	7.14	7.27
Industrial <sup>4</sup>	Cents	.95	1.92	2.07	2.33	2.59	2.91	3.44	4.03	4.66	4.68	4.88	5.04

<sup>1</sup> Source: 1970-1975, U.S. Federal Power Commission; thereafter, U.S. Energy Information Administration, *Monthly Energy Review*. <sup>2</sup> Includes other types not shown separately. <sup>3</sup> Small light and power. <sup>4</sup> Large light and power.

Source: Except as noted, Edison Electric Institute, Washington, DC, *Statistical Yearbook*.

## NO. 962. ELECTRIC UTILITIES—BALANCE SHEET AND INCOME ACCOUNT OF PRIVATELY OWNED COMPANIES: 1970 TO 1984

[In billions of dollars. As of Dec. 31. See also *Historical Statistics, Colonial Times to 1970*, series S 133-146 and V 197-212]

ITEM	CLASS A AND B INVESTOR-OWNED ELECTRIC UTILITIES <sup>1</sup>								MAJOR INVESTOR-OWNED ELECTRIC UTILITIES <sup>2</sup>			
	1970	1975	1976	1977	1978	1979	1980	1981	1981	1982	1983	1984
<b>COMPOSITE BALANCE SHEET</b>												
Assets and other debits	87.4	157.1	173.1	192.1	211.1	234.8	260.0	286.0	285.1	315.0	342.4	375.6
Electric utility plant <sup>3</sup>	93.3	160.7	177.6	196.8	218.0	242.3	266.9	292.7	291.6	321.2	347.9	377.2
Depreciation and amortization	20.3	31.9	35.6	39.8	44.5	49.7	55.5	61.5	61.1	67.6	74.3	81.9
Net electric utility plant	73.1	128.8	142.0	157.0	173.5	192.6	211.5	231.2	230.5	253.6	273.6	295.3
Other utility plant	9.0	11.7	12.1	12.6	13.2	13.9	14.8	15.7	15.7	16.7	17.5	18.3
Depreciation and amortization	2.1	3.1	3.4	3.7	3.9	4.2	4.5	4.9	4.9	5.3	5.8	6.1
Net other utility plant	6.9	8.6	8.7	9.0	9.3	9.7	10.3	10.8	10.8	11.4	11.8	12.2
Total utility plant	102.3	172.4	189.7	209.4	231.2	256.2	281.7	308.4	307.3	337.9	365.5	395.5
Depreciation and amortization	22.3	35.0	39.0	43.5	48.4	53.9	60.0	66.4	66.0	72.9	80.1	88.0
Net total utility plant	79.9	137.4	150.7	165.9	182.8	202.3	221.7	242.0	241.3	265.0	285.4	307.5
Other property and investments	1.7	4.5	4.8	5.6	6.4	6.0	6.5	7.9	7.9	9.1	10.3	10.9
Current and accrued assets	5.3	13.5	15.6	18.2	18.9	22.4	26.2	28.7	28.6	31.7	33.3	37.9
Deferred debits	.4	1.7	2.0	2.3	3.0	4.1	5.5	7.3	7.3	9.3	13.4	19.3
Liabilities and other credits <sup>4</sup>	87.4	157.1	173.1	192.1	211.1	234.8	260.0	286.0	285.1	315.0	342.4	375.6
Capital stock	20.8	37.8	41.6	45.6	49.1	53.8	59.3	63.9	63.7	70.3	75.9	79.0
Other paid-in capital	4.4	11.5	13.4	15.6	17.9	19.4	21.5	24.0	23.9	27.7	31.0	33.3
Retained earnings	9.4	14.7	16.2	17.8	19.4	21.0	22.7	25.0	24.8	27.9	31.9	37.1
Subsidiary earnings <sup>5</sup>	(x)	.6	.7	.8	.9	1.0	1.1	1.3	1.3	1.6	1.7	2.0
Long-term debt	41.9	70.8	76.2	82.2	88.3	95.7	105.3	115.5	115.2	124.0	131.6	140.7
Current and accrued liabilities	7.3	13.7	14.1	16.0	18.3	23.4	28.3	28.4	28.1	28.6	29.5	32.0
Deferred credits and operating reserves	.9	2.7	4.0	5.7	7.1	8.7	9.8	11.5	11.0	15.1	16.6	19.0
Deferred income taxes <sup>6</sup>	2.2	5.4	6.8	8.3	10.0	11.9	14.1	16.7	16.6	19.4	23.6	28.1
<b>COMPOSITE INCOME ACCOUNTS</b>												
Electric operating revenues	19.8	44.6	50.6	58.9	65.4	72.9	87.1	102.3	101.7	109.3	116.7	128.3
Electric operating expenses	15.3	35.1	41.1	48.6	54.3	61.0	73.4	86.0	85.5	91.1	96.2	105.5
Net electric operating revenues	4.5	8.5	9.4	10.3	11.1	11.8	13.6	16.3	16.2	18.1	20.5	22.8
Other utility operating income	.4	.5	.6	.6	.7	.7	.7	.9	.7	.9	.9	1.1
Total utility operating income	4.9	9.0	10.1	10.9	11.7	12.5	14.4	17.0	17.0	19.1	21.4	24.0
Other income	.8	2.2	2.5	2.2	2.5	3.1	3.6	4.4	4.4	5.3	6.5	6.8
Total income	5.7	11.3	12.5	13.0	14.3	15.6	18.0	21.4	21.3	24.4	28.0	30.8
Income deductions	2.3	5.1	5.4	5.0	5.5	6.1	7.3	8.7	8.7	9.4	10.1	11.1
Net income <sup>7</sup>	3.4	6.1	7.2	8.0	8.7	9.5	10.7	12.7	12.7	15.0	17.9	19.7

X Not applicable. <sup>1</sup> There were 197 utilities of this type in 1983. <sup>2</sup> There were 178 utilities of this type in 1984.

<sup>3</sup> Includes construction work in progress. <sup>4</sup> Includes contributions in aid of construction through 1970.

<sup>5</sup> Unappropriated undistributed. <sup>6</sup> Cumulative. <sup>7</sup> Beginning 1975, includes net extraordinary income.

Source: 1970-1975, U.S. Federal Power Commission and 1976-1981, U.S. Energy Information Administration, *Statistics of Privately Owned Electric Utilities in the United States*, annual; thereafter, U.S. Energy Information Administration, *Financial Statistics of Selected Electric Utilities*, annual.

## NO. 963. NUCLEAR POWER PLANTS—NUMBER, CAPACITY, AND GENERATION: 1965 TO 1985

ITEM	1965	1970	1973	1975	1978	1979	1980	1981	1982	1983	1984	1985, prel.
Operable reactors <sup>1</sup>	6	18	39	54	70	68	70	74	77	80	86	95
Net summer capability <sup>1,2</sup> (mil. kW)	.8	7.0	22.6	37.2	50.7	49.6	51.7	55.9	59.9	63.0	69.7	79.5
Electricity generated (bil. kWh)	4	22	84	173	276	255	251	273	283	294	328	384
Percent of total electric utility generation	.4	1.4	4.5	9.0	12.5	11.4	11.0	11.9	12.6	12.7	13.8	15.5
Capacity factor <sup>3</sup>	(NA)	(NA)	53.7	56.0	64.7	58.5	56.4	58.4	56.7	54.4	56.3	57.9

NA Not available. <sup>1</sup> As of yearend. <sup>2</sup> Net summer capability is the peak steady hourly output that generating equipment is expected to supply to system load, exclusive of auxiliary and other powerplant, as demonstrated by test at the time of summer peak demand. <sup>3</sup> Weighted average of monthly capacity factors. Monthly factors are derived by dividing actual monthly generation by the maximum possible generation for the month (hours in month times net maximum dependable capacity).

Source: U.S. Energy Information Administration, *Annual Energy Review*.

## NO. 964. COMMERCIAL NUCLEAR POWER GENERATION, BY COUNTRY: 1970 TO 1985

[Generation for calendar years; other data as of December. Excludes Communist countries]

COUNTRY	REACTORS				ELECTRICITY GENERATED <sup>1</sup> (bil. kWh)				GROSS CAPACITY (1,000 kW)			
	1970	1980	1984	1985	1970	1980	1984	1985	1970	1980	1984	1985
<b>Total</b>	<b>64</b>	<b>208</b>	<b>272</b>	<b>295</b>	<b>73.9</b>	<b>617.8</b>	<b>1,053.5</b>	<b>1,259.6</b>	<b>15,186</b>	<b>128,847</b>	<b>192,822</b>	<b>223,486</b>
U.S.	15	74	83	89	23.2	265.2	340.6	399.1	5,211	56,529	70,779	80,327
Argentina	-	1	2	2	-	2.3	4.5	4.8	-	357	1,005	1,005
Belgium	1	3	5	7	.3	12.5	27.7	34.5	11	1,744	3,621	5,709
Brazil	-	-	1	1	-	-	2.0	3.4	-	-	657	657
Canada	1	9	14	15	.9	40.4	53.9	62.9	220	5,588	8,971	10,332
China: Taiwan	-	2	5	6	-	8.2	24.6	28.7	-	1,272	4,194	5,146
Germany, F.R. of	4	11	14	16	5.3	43.7	89.7	125.7	907	8,996	12,922	16,912
Great Britain	27	33	37	37	26.5	37.2	54.1	59.6	4,783	9,012	12,280	12,280
Finland	-	4	4	4	-	7.0	18.5	18.8	-	2,296	2,296	2,400
France	4	22	42	44	5.7	61.2	191.2	224.0	1,806	15,412	34,986	38,595
India	2	4	5	5	2.2	2.9	4.1	4.4	400	860	1,095	1,095
Italy	3	4	3	3	3.3	2.2	6.9	7.0	631	1,490	1,330	1,330
Japan	3	22	28	33	3.3	81.0	124.9	152.0	828	15,117	19,658	24,686
Korea, Rep. of	-	1	3	4	-	3.5	11.8	16.5	-	587	1,916	2,666
Netherlands	1	2	2	2	.4	4.2	3.7	3.9	55	529	540	540
Pakistan	-	1	1	1	-	.1	.3	.3	-	137	137	137
Spain	1	3	7	8	.9	5.2	23.0	28.0	180	1,117	4,882	5,812
Sweden	1	8	10	12	(Z)	26.7	51.3	58.6	12	5,770	7,715	9,815
Switzerland	1	4	5	5	1.9	14.3	16.3	22.4	364	2,034	2,976	3,079
Yugoslavia	-	-	1	1	-	-	-	4.1	-	-	664	664

- Represents zero. Z Less than 50 million kWh. <sup>1</sup> Gross.

Source: McGraw-Hill, Inc., New York, NY, *Nuclear News Week*, January issues. (Copyright.)

## NO. 965. URANIUM SUPPLY, ENRICHMENT, AND DISCHARGED COMMERCIAL REACTOR FUEL: 1965 TO 1985

[Years ending Dec. 31, except as noted. For explanation of kilogram, see weights and measures]

ITEM	Unit	1965	1970	1975	1979	1980	1981	1982	1983	1984	1985
<b>URANIUM (U<sub>3</sub>O<sub>8</sub>)</b>											
Production	Mil. lb.	20.88	25.81	23.20	37.47	43.70	38.47	26.87	21.18	14.88	11.20
Exports	Mil. lb.	-	4.20	1.00	5.20	5.80	4.40	6.20	3.30	2.20	5.30
Imports	Mil. lb.	8.00	-	1.40	3.00	3.80	6.60	17.10	8.20	12.50	16.20
Delivered price	Dol./lb.	(NA)	(NA)	10.50	23.85	26.00	32.20	38.97	38.20	32.65	31.43
<b>ENRICHMENT</b>											
Enriched product <sup>1</sup>	Mil. Kg. Swu <sup>2</sup>	.54	5.10	9.92	13.98	10.69	11.50	12.36	<sup>3</sup> 8.46	<sup>4</sup> 11.2	<sup>4</sup> 10.2
For domestic customers	Mil. Kg. Swu <sup>2</sup>	.20	3.74	4.36	8.86	6.89	7.19	6.69	<sup>3</sup> 4.69	<sup>4</sup> 5.8	<sup>4</sup> 6.0
For foreign customers	Mil. Kg. Swu <sup>2</sup>	.34	1.36	5.56	5.31	3.80	4.31	5.67	<sup>3</sup> 3.77	<sup>4</sup> 5.4	<sup>4</sup> 4.2
Sales <sup>4</sup>	Mil. dol.	(NA)	(NA)	376	1,432	1,379	1,445	2,185	2,329	<sup>4</sup> 1,457	<sup>4</sup> 1,403
<b>DISCHARGED COMMERCIAL REACTOR FUEL <sup>5</sup></b>											
Annual discharge	Metric tons	53	82	499	1,258	1,193	1,077	1,014	1,224	1,257	1,367
Inventory, yearend <sup>6</sup>	Metric tons	23	118	1,538	5,241	6,434	7,511	8,525	9,749	11,006	12,373
On-site storage	Metric tons	(NA)	(NA)	(NA)	(NA)	(NA)	7,032	8,046	9,300	10,642	11,938
Off-site storage	Metric tons	(NA)	(NA)	(NA)	(NA)	(NA)	479	479	449	364	435

- Represents zero. NA Not available. <sup>1</sup> Based on sales. <sup>2</sup> Separate work unit. The standard measure of enrichment services is based on operating tails assay in effect at the time the enriched product was placed in inventory. <sup>3</sup> Jan.-Sept. only. <sup>4</sup> Fiscal years. <sup>5</sup> Uranium content. Source: Nuclear Assurance Corporation, Atlanta, GA. <sup>6</sup> Reprocessed fuel not included as inventory.

Source: Except as noted, U.S. Energy Information Administration, *Annual Energy Review*, *Uranium Industry Annual Report 1984*, and Form EIA-858 "Uranium Industry Annual Survey" (1985); and U.S. Dept. of Energy, *Statistical Data of the Uranium Industry 1983 and Uranium Enrichment Annual Report 1982-1985*.

# No. 966. NUCLEAR POWER PLANTS—NUMBER OF UNITS, NET SUMMER CAPABILITY, AND NET GENERATION BY STATE: 1985

DIVISION AND STATE	Number of units	NET SUMMER CAPABILITY		NET GENERATION		DIVISION AND STATE	Number of units	NET SUMMER CAPABILITY		NET GENERATION	
		Total (mil. kW)	Percent of total	Total (mil. kWh)	Percent of total			Total (mil. kW)	Percent of total	Total (mil. kWh)	Percent of total
U.S.	96	80.3	12.2	383,688	15.5	So. Atl.—Con.	-	-	-	-	-
N. Eng.	7	4.2	20.2	27,208	33.4	WV	-	-	-	-	-
ME	1	.8	34.7	5,354	58.6	NC	4	3.9	20.8	19,303	25.9
NH	-	-	-	-	-	SC	6	5.3	38.2	31,826	59.4
VT	1	.5	44.3	2,999	71.7	GA	2	1.5	9.1	10,130	12.5
MA	2	.8	8.5	6,133	16.9	FL	5	3.8	12.3	23,461	24.3
RI	-	-	-	-	-	E. So. Cent.	8	8.2	14.3	28,317	12.8
CT	3	2.1	35.2	12,721	50.4	KY	2	2.3	13.6	9,672	14.5
Mid Atl.	16	14.2	18.8	68,094	24.2	TN	5	4.8	25.7	14,313	19.7
NY	5	3.7	12.2	24,092	21.6	AL	1	1.1	16.1	4,332	22.6
NJ	3	2.8	22.6	17,770	51.7	MS	4	3.7	3.9	12,347	3.6
PA	8	7.7	23.4	26,232	19.4	W. So. Cent.	2	1.7	17.8	9,689	27.8
E. No. Cent.	19	14.8	13.8	65,480	16.0	AR	2	2.0	11.9	2,440	5.5
OH	1	.9	3.3	1,943	1.8	LA	-	-	-	-	-
IN	-	-	-	-	-	OK	-	-	-	-	-
IL	9	8.4	28.7	39,106	37.7	TX	-	-	-	17	(2)
MI	5	4.0	17.9	13,452	18.1	Mt.	2	1.5	3.3	1,098	.5
WI	4	1.5	14.2	10,979	26.7	MT	-	-	-	-	-
W. No. Cent.	8	5.5	10.4	29,519	16.0	ID	-	-	-	-	-
MN	3	1.5	19.7	11,572	37.4	WY	-	-	-	-	-
IA	1	.5	6.3	1,927	8.2	CO	1	.2	2.8	1-32	1-.1
MO	1	1.1	7.5	8,030	14.0	NM	-	-	-	-	-
ND	-	-	-	-	-	CA	6	5.8	12.7	19,726	15.4
SD	-	-	-	-	-	AZ	1	1.3	11.4	1,130	2.4
NE	2	1.2	22.1	4,134	25.9	UT	-	-	-	-	-
KS	1	1.1	11.7	3,856	14.0	NV	-	-	-	-	-
So. Atl.	23	19.5	16.3	116,950	25.0	Pac.	9	8.6	10.7	34,675	12.9
DE	-	-	-	-	-	WA	2	1.9	7.9	8,038	8.6
MD	2	1.7	17.2	9,926	30.7	OR	1	1.1	9.7	6,911	14.3
DC	-	-	-	-	-	CA	6	5.8	12.7	19,726	15.4
VA	4	3.3	26.2	22,303	59.0	AK	-	-	-	-	-
						HI	-	-	-	-	-

- Represents zero. Z Less than .05 percent. <sup>1</sup> Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Source: U.S. Energy Information Administration, *Electric Power Annual*, and *Inventory of Power Plants in the United States, 1985*.

## No. 967. PRIVATELY OWNED GAS UTILITY INDUSTRY—BALANCE SHEET AND INCOME ACCOUNT: 1970 TO 1985

[In millions of dollars. The gas utility industry consists of pipeline and distribution companies. Excludes operations of companies distributing gas in bottles or tanks. See also *Historical Statistics, Colonial Times to 1970*, series S 205-218]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
COMPOSITE BALANCE SHEET										
Assets, total <sup>1</sup>	34,929	50,286	62,918	70,245	75,725	86,894	95,003	100,499	98,933	104,478
Total utility plant	38,541	49,384	59,033	62,710	66,767	72,917	78,479	82,038	83,118	88,121
Depreciation and amortization	10,696	16,779	22,861	24,400	26,062	28,908	31,388	34,208	35,542	36,377
Utility plant (net)	27,845	32,605	36,172	38,310	40,705	44,009	47,091	47,380	47,576	51,744
Investment and fund accounts <sup>1</sup>	3,024	9,198	12,805	14,097	15,625	19,368	20,750	21,531	21,872	23,871
Current and accrued assets	3,674	7,543	12,129	15,427	17,211	20,563	23,576	27,571	25,367	24,771
Deferred debits <sup>2</sup>	366	840	1,815	2,411	2,184	2,954	3,586	3,567	4,118	4,092
Liabilities, total <sup>1</sup>	34,929	50,286	62,918	70,245	75,725	86,894	95,003	100,499	98,933	104,478
Capitalization, total <sup>1</sup>	28,546	39,044	45,830	48,165	51,299	57,512	62,390	65,040	64,458	65,799
Capital stock <sup>1</sup>	12,965	19,500	25,586	27,135	29,262	33,041	36,161	38,488	38,959	39,517
Long-term debts	15,581	19,544	20,245	21,030	22,037	24,471	26,229	26,552	25,499	26,282
Current and accrued liabilities	4,832	8,158	11,704	16,024	18,107	22,134	23,809	25,150	23,043	26,125
Deferred income taxes <sup>3</sup>	788	2,052	2,991	3,798	4,144	4,972	5,473	6,537	7,000	7,769
Other liabilities and credits	663	1,032	2,393	2,257	2,175	2,276	3,331	3,772	4,432	4,785
COMPOSITE INCOME ACCOUNT										
Operating revenues, total	16,380	30,550	52,995	66,931	85,807	101,593	115,673	116,096	115,491	103,945
Operating expenses <sup>4</sup>	14,306	27,480	49,272	62,887	81,517	96,917	110,259	110,142	109,185	98,320
Operation and maintenance	11,636	22,957	43,108	56,281	74,433	89,108	101,548	100,495	98,953	88,572
Federal, State, and local taxes	1,569	2,763	3,980	4,294	4,853	5,056	5,694	6,508	7,146	6,590
Operating income	2,074	3,070	3,723	4,043	4,290	4,676	5,414	5,954	6,326	5,625
Utility operating income	2,159	3,221	3,944	4,296	4,633	5,087	5,819	6,303	6,647	6,030
Income before interest charges <sup>1</sup>	2,457	4,137	5,385	6,303	7,112	8,369	8,742	8,717	9,068	7,638
Net income <sup>1</sup>	1,427	2,502	3,443	4,208	4,377	5,145	5,072	5,158	5,619	3,785
Dividends	1,006	1,509	2,117	2,362	2,566	3,084	3,297	3,638	4,471	4,060

<sup>1</sup> Beginning 1975, not comparable with 1970 due to Federal Power Commission ruling requiring adoption of the equity method in reporting earnings of subsidiaries. <sup>2</sup> Includes capital stock discount and expense and reacquired securities. <sup>3</sup> Includes reserves for deferred income taxes. <sup>4</sup> Includes expenses not shown separately.

Source: American Gas Association, Arlington, VA, *Gas Facts*, annual. (Copyright.)

## NO. 968. GAS UTILITY INDUSTRY—SUMMARY: 1970 TO 1985

[Covers natural, manufactured, mixed, and liquid petroleum gas. Based on questionnaire mailed to all privately and municipally owned gas utilities in U.S., except those with annual revenues less than \$25,000. See also *Historical Statistics, Colonial Times to 1970*, series S 190-204]

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
<b>Customers<sup>1</sup></b>											
Residential.....	1,000	41,482	44,555	45,789	46,478	47,225	47,947	48,415	48,799	49,325	49,971
Commercial.....	1,000	38,097	40,950	42,183	42,821	43,489	44,149	44,552	44,894	45,367	45,929
Industrial and other.....	1,000	3,131	3,367	3,370	3,423	3,500	3,564	3,631	3,676	3,730	3,816
<b>Sales<sup>2</sup></b>											
Tril. Btu <sup>3</sup> .....	1,000	254	237	236	234	236	234	232	229	228	226
Residential.....	Tril. Btu	16,044	14,863	14,748	15,440	15,413	15,375	14,183	12,858	13,162	12,616
Percent of total.....	Percent	4,923	4,991	5,107	5,083	4,826	4,610	4,770	4,450	4,628	4,513
Commercial.....	Tril. Btu	30.7	33.6	34.6	32.9	31.3	30.0	33.6	34.6	35.2	35.8
Industrial.....	Tril. Btu	2,007	2,387	2,500	2,486	2,453	2,376	2,471	2,298	2,398	2,338
Other.....	Tril. Btu	8,439	6,837	6,841	7,555	7,957	8,239	6,795	5,970	5,991	5,635
<b>Revenues<sup>2</sup></b>											
Tril. Btu.....	1,000	674	648	301	316	177	150	147	140	147	130
Residential.....	Tril. Btu	10,283	19,101	32,150	38,947	48,303	56,110	63,200	65,837	67,498	63,293
Percent of total.....	Percent	5,207	8,445	12,939	14,833	17,432	19,180	23,700	26,173	27,485	26,864
Commercial.....	Tril. Btu	50.6	44.2	40.2	38.1	36.1	34.2	37.5	39.8	40.7	42.4
Industrial.....	Tril. Btu	1,620	3,302	5,696	6,624	8,183	9,286	11,666	12,659	13,205	12,722
Other.....	Tril. Btu	3,181	6,745	13,065	16,961	22,215	27,124	27,200	26,315	26,094	23,986
<b>Prices per mil. Btu<sup>3</sup></b>											
Dollars.....	Dollars	274	608	450	530	473	520	634	690	712	621
Residential.....	Dollars	.64	1.29	2.18	2.52	3.13	3.65	4.46	5.12	5.13	5.02
Commercial.....	Dollars	1.06	1.69	2.53	2.92	3.61	4.16	4.97	5.88	5.94	5.85
Industrial.....	Dollars	.81	1.38	2.28	2.66	3.34	3.91	4.72	5.51	5.51	5.44
<b>Gas mains mileage.....</b>											
Field and gathering.....	1,000	913	980	1,013	1,030	1,052	1,070	1,083	1,085	1,102	1,119
Transmission.....	1,000	88	88	75	78	84	86	90	92	94	94
Distribution.....	1,000	252	263	261	263	266	270	272	273	272	271
<b>Construction expenditures<sup>4</sup></b>											
Tril. Btu.....	1,000	2,506	2,466	3,681	4,366	5,350	6,389	5,939	4,078	4,645	5,671
Transmission.....	Tril. Btu	1,019	590	935	1,226	1,593	2,352	1,921	1,085	1,301	1,562
Distribution.....	Tril. Btu	913	910	1,228	1,448	1,869	1,995	1,881	1,845	2,266	2,577
Production and storage.....	Tril. Btu	370	831	1,202	1,406	1,548	1,672	1,690	746	543	985

<sup>1</sup> Annual average. <sup>2</sup> Excludes sales for resale. <sup>3</sup> For definition, see text, section 19. <sup>4</sup> Includes general.

Source: American Gas Association, Arlington, VA, *Gas Facts*, annual. (Copyright.)

## NO. 969. GAS UTILITY INDUSTRY—CUSTOMERS, SALES, AND REVENUES, BY STATE: 1985

[See headnote, table 968]

DIVISION AND STATE	CUSTOMERS <sup>1</sup> (1,000)		SALES <sup>2</sup> (tril. Btu <sup>4</sup> )		REVENUES <sup>3</sup> (mil. dol.)		DIVISION AND STATE	CUSTOMERS <sup>1</sup> (1,000)		SALES <sup>2</sup> (tril. Btu <sup>4</sup> )		REVENUES <sup>3</sup> (mil. dol.)	
	Total <sup>2</sup>	Residential	Total <sup>2</sup>	Residential	Total <sup>2</sup>	Residential		Total <sup>2</sup>	Residential	Total <sup>2</sup>	Residential	Total <sup>2</sup>	Residential
<b>U.S.</b>	49,971	45,929	12,616	4,513	63,293	26,864	<b>So. Atl.—</b>						
N. Eng.....	1,839	1,684	349	150	2,289	1,181	VA.....	564	512	124	43	737	305
ME.....	15	12	2	(2)	19	5	WV.....	387	355	78	38	442	231
NH.....	58	50	11	5	71	34	NC.....	445	393	125	30	670	193
VT.....	18	16	5	2	30	11	SC.....	319	286	94	17	480	109
MA.....	1,130	1,042	221	94	1,389	712	GA.....	1,196	1,103	271	90	1,436	580
RI.....	185	170	31	15	207	118	FL.....	461	421	233	14	911	100
CT.....	433	394	79	34	573	301	<b>E. So. Cent.</b>	2,286	2,058	626	175	2,847	956
<b>Mid. Atl.</b>	8,363	7,737	1,500	732	9,468	5,251	KY.....	644	584	142	61	694	321
NY.....	4,024	3,753	839	327	4,198	2,489	TN.....	550	476	164	40	737	201
NJ.....	1,955	1,760	335	154	2,145	1,126	AL.....	688	635	179	47	861	292
PA.....	2,384	2,223	526	251	3,123	1,636	MS.....	404	363	141	27	555	142
<b>E. No. Cent.</b>	11,119	10,247	2,897	1,405	15,255	8,084	<b>W. So. Cent.</b>	5,848	5,334	2,330	400	9,063	2,089
OH.....	2,794	2,586	625	341	3,414	1,982	AR.....	531	469	143	41	580	178
IN.....	1,310	1,197	399	147	1,882	806	LA.....	995	928	285	61	1,119	336
IL.....	3,356	3,081	901	454	4,546	2,439	OK.....	903	814	263	79	963	345
MI.....	2,551	2,372	667	346	3,779	2,085	TX.....	3,418	3,123	1,639	220	6,401	1,230
WI.....	1,108	1,011	305	117	1,634	752	<b>MT.</b>	3,041	2,753	655	259	3,051	1,389
<b>W. No. Cent.</b>	4,373	3,938	1,144	462	5,273	2,421	MT.....	189	167	44	21	204	93
MN.....	910	824	251	107	1,277	612	ID.....	117	101	33	8	172	54
IA.....	764	681	217	79	989	421	WY.....	128	114	38	14	163	70
MO.....	1,241	1,145	256	129	1,277	707	CO.....	1,011	904	192	90	908	460
ND.....	95	83	22	10	119	58	WY.....	367	330	75	28	351	158
SD.....	110	98	25	11	126	64	AZ.....	595	549	119	30	574	199
NE.....	466	405	124	48	537	238	UT.....	433	403	113	54	453	246
KS.....	787	702	249	78	938	321	NV.....	201	185	41	14	226	89
<b>So. Atl.</b>	4,405	4,026	1,095	314	5,787	2,108	<b>Pac.</b>	8,698	8,152	2,020	616	10,262	3,425
DE.....	85	79	23	6	125	44	WA.....	401	351	134	33	720	212
MD.....	803	746	119	64	780	452	OR.....	304	265	77	22	433	146
DC.....	145	131	28	12	206	94	CA.....	7,888	7,445	1,763	547	8,970	3,017
							AK.....	72	62	43	13	95	36
							HI.....	35	29	9	1	44	11

Z Less than 500. <sup>1</sup> Averages for the year. <sup>2</sup> Includes other service, not shown separately.

<sup>3</sup> Excludes sales for resale. <sup>4</sup> For definition, see headnote, table 932.

Source: American Gas Association, VA, *Gas Facts*, annual. (Copyright.)

## No. 970. WOOD ENERGY CONSUMPTION, BY REGION AND SECTOR: 1980 TO 1984

[In trillions of Btu, except percent. For composition of regions, see fig. 1, inside front cover]

YEAR	Total	Percent of total energy consumption	REGION				SECTOR			
			North-east	Mid-west	South	West	Resi-dential	Indus-trial	Com-mercial	Elec-tric utili-ties
1980.....	2,483	3.2	386	329	1,380	388	859	1,500	21	4
1981.....	2,412	3.2	389	331	1,291	402	869	1,519	21	3
1982.....	2,395	3.3	351	339	1,334	372	937	1,434	22	2
1983.....	2,556	3.5	369	318	1,471	396	925	1,606	22	3
1984.....	2,633	3.4	349	341	1,482	461	923	1,679	22	9

Source: U.S. Energy Information Administration, *Annual Energy Review*.

## No. 971. WATER POWER—DEVELOPED AND UNDEVELOPED CAPACITY, BY DIVISION: 1950 TO 1985

[In millions of kilowatts. As of Dec. 31. Excludes Alaska and Hawaii for 1950 and all capacity of reversible equipment at pumped storage projects. Also excludes capacity precluded from development due to wild and scenic river legislation. See also *Historical Statistics, Colonial Times to 1970*, series S 160-175]

DIVISION	DEVELOPED INSTALLED CAPACITY								ESTIMATED UNDEVELOPED CAPACITY							
	1950	1960	1970	1975	1980	1984	1985	1950	1960	1970	1975	1980	1984	1985		
U.S.....	18.7	33.2	52.0	57.0	64.4	67.7	68.8	87.6	114.2	128.0	113.7	129.9	76.0	76.4		
New England.....	1.2	1.5	1.5	1.5	1.5	1.6	1.7	3.3	2.9	3.3	3.3	4.7	4.5	4.4		
Middle Atlantic.....	1.7	2.5	4.3	4.2	4.3	4.3	4.5	6.6	7.6	4.5	4.3	5.1	5.3	5.4		
E. No. Central.....	.9	.9	.9	.9	.9	1.1	1.1	2.3	3.0	1.6	1.4	2.0	1.7	1.8		
W. No. Central.....	.6	1.6	2.7	2.8	2.8	2.8	2.9	5.8	6.4	4.4	2.1	3.4	3.1	3.1		
South Atlantic.....	2.8	3.8	5.3	5.8	5.9	6.1	6.5	8.2	8.4	9.6	8.4	9.6	8.0	7.4		
E. So. Central.....	2.7	3.8	5.2	5.5	5.6	5.8	5.9	4.7	4.6	3.8	3.1	3.3	2.9	2.7		
W. So. Central.....	.5	.9	1.9	2.3	2.3	2.3	2.3	3.6	3.9	3.3	2.7	4.7	5.4	5.4		
Mountain.....	2.3	4.6	6.2	6.9	7.4	8.1	8.1	23.4	23.6	26.7	19.6	34.2	18.4	19.4		
Pacific.....	6.0	13.6	23.9	27.2	33.7	35.6	35.8	29.8	53.8	70.9	68.8	62.9	26.7	26.8		

Source: U.S. Federal Energy Regulatory Commission, (formerly U.S. Federal Power Commission), *Hydroelectric Power Resources of the United States, Developed and Undeveloped*, January 1, 1985; and unpublished data.

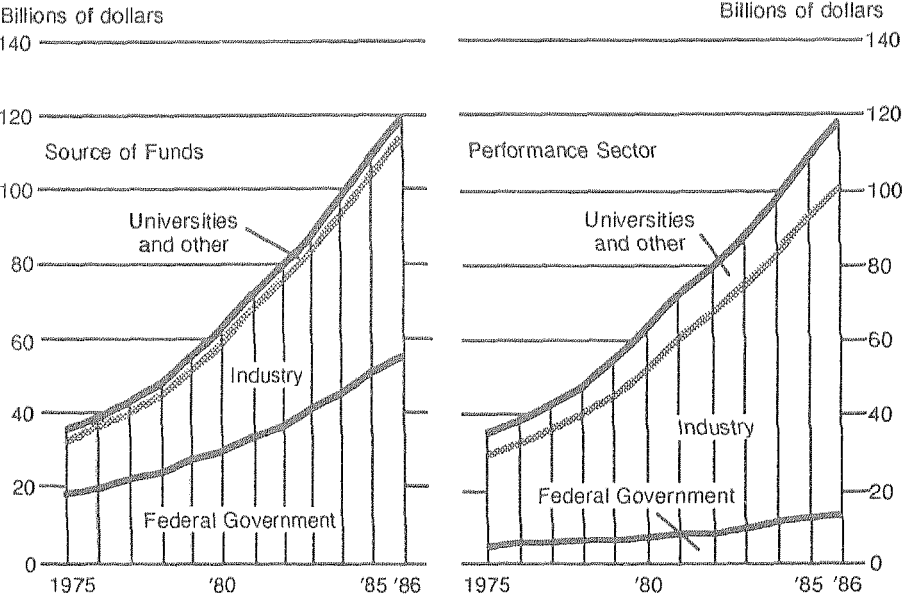
## No. 972. SOLAR COLLECTOR SHIPMENTS, BY TYPE, END-USE, AND MARKET SECTOR: 1974 TO 1984

[In thousands of square feet, except number of manufacturers. Solar collector is a device for intercepting sunlight, converting the sunlight to heat, and carrying the heat to where it will be either used or stored]

YEAR	Number of manu-facturers	Total ship-ments <sup>1</sup>	COLLECTOR TYPE		END USE			MARKET SECTOR		
			Low temper-ature	Medium temper-ature, special, other	Pool heating	Hot water	Space heating	Resi-dential	Com-mercial	Indus-trial
1974.....	45	1,274	1,137	137	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1975.....	131	3,743	3,026	717	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1976.....	186	5,801	3,876	1,925	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1977.....	321	10,312	4,743	5,569	6,334	1,713	1,999	7,978	1,880	105
1978.....	340	10,860	5,872	4,988	5,970	2,513	1,736	8,095	1,848	263
1979.....	349	14,251	8,395	5,857	8,551	2,958	1,722	11,387	2,015	314
1980.....	233	19,398	12,233	7,165	12,029	4,790	1,688	16,077	2,417	488
1981.....	203	20,133	8,677	11,456	9,781	7,204	2,017	15,773	2,561	1,518
1982.....	265	18,621	7,476	11,145	7,035	7,444	2,367	13,729	3,789	580
1983.....	203	16,828	4,853	11,975	4,839	9,323	2,082	11,780	3,039	1,665
1984.....	224	16,419	4,479	11,939	4,427	8,930	2,370	13,980	2,091	289

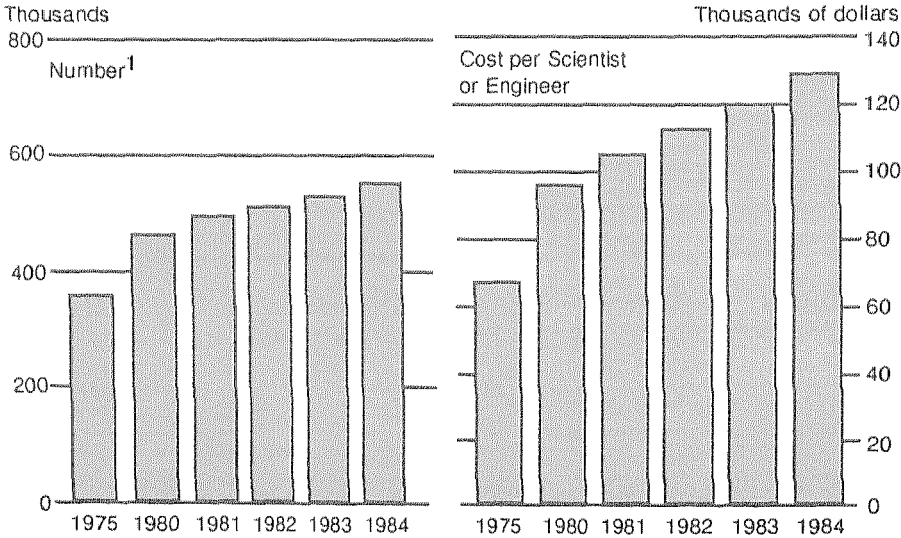
NA Not available. <sup>1</sup> Includes other end uses and market sectors not shown separately.Source: U.S. Energy Information Administration, *Solar Collector Manufacturing Activity*, annual.

Figure 20.1  
Research and Development Funds: 1975 to 1986



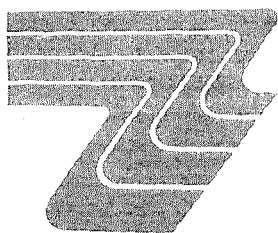
Source: Chart prepared by U.S. Bureau of the Census. For data, see table 974.

Figure 20.2  
Research and Development Scientists and Engineers in Private Industry: 1975 to 1984



<sup>1</sup> Average full-time equivalent employment.

Source: Chart prepared by U.S. Bureau of the Census. For data, see table 988.



This section presents statistics on scientific, engineering, and technological resources, with emphases on patterns of research and development (R&D) funding and on scientific, engineering, and technical personnel and education. Also included are statistics on space program outlays and accomplishments. Principal sources of these data are the National Science Foundation (NSF) and the National Aeronautics and Space Administration (NASA).

NSF gathers data chiefly through recurring surveys. Current NSF publications containing data on funds for research and development and on scientific and engineering personnel include *Science Resources Studies Highlights*; and annual, biennial, and special reports such as *Federal Funds for Research and Development*; *Research and Development in Industry*; *National Patterns of Science and Technology Resources*; *Academic Science/Engineering: R&D Funds, Scientists and Engineers, Graduate Enrollment and Support*; *Federal Support to Universities, Colleges, and Selected Nonprofit Institutions*; *Characteristics of Doctoral Scientists and Engineers in the United States*; *U.S. Scientists and Engineers*; *Employment Attitudes of Recent Science and Engineering Graduates*; *Science and Engineering Employment*; *Characteristics of Experienced Scientists and Engineers*; *Scientists, Engineers, and Technicians in Private Industry*; *Science and Engineering Personnel: A National Overview*; *Science and Technology Data Book*; *Women and Minorities in Science and Engineering*; and policy reports relating to national allocation of human resources and funds to science and technology. Statistical surveys in these areas pose particularly difficult problems of concept and definition and the data should, therefore, be regarded as broad estimates rather than precise quantitative statements. Detailed discussions of the scope and limitations of the data appear in the source publications.

The National Science Board's biennial *Science Indicators* publication contains data and analyses of international and domestic science and technology, including measures of their outputs and impacts. *The Budget of the United States Government*, published by the U.S. Office of Management and Budget, contains summary financial data on Federal R&D programs.

**Research and development outlays.**—NSF defines research as a "systematic and intensive study directed toward a fuller knowledge of the subject studied" and development as "the systematic use of scientific knowledge directed toward the production of useful materials, devices, systems, methods, or processes." National coverage of R&D expenditures is developed primarily from periodic surveys in four principal economic sectors: (1) *Government*, made up primarily of Federal executive agencies; (2) *industry*, consisting of manufacturing and nonmanufacturing firms and the federally funded research and development centers (FFRDC's) they administer; (3) *universities and colleges*, composed of universities, colleges, and their affiliated institutions, agricultural experiment stations, and associated schools of agriculture, and FFRDC's administered by educational institutions; and (4) *other nonprofit institutions*, consisting of such organizations as private philanthropic foundations, nonprofit research institutes, voluntary health agencies, and FFRDC's administered by nonprofit organizations. The R&D funds reported consist of current operating costs, including planning and administration costs, except as otherwise noted. They exclude funds for routine testing, mapping and surveying, collection of general-purpose data, dissemination of scientific information, and training of scientific personnel.

**Scientists, engineers, and technicians.**—Scientists and engineers are defined as persons engaged in scientific and engineering work at a level requiring a knowledge of sciences equivalent at least to that acquired through completion of a 4-year college course. Technicians are defined as persons engaged in technical work at a level requiring knowledge acquired through a technical institute, junior college, or other type of training less extensive than 4-year college training. Craftsmen and skilled workers are excluded.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

**Statistics for States and metropolitan statistical areas (MSAs).**—Data for States and MSAs may also be found in *State and Metropolitan Area Data Book 1986*. For cross-references, see Appendix V.

## No. 973. RESEARCH AND DEVELOPMENT (R&amp;D)—OUTLAYS: 1955 TO 1986

[Includes basic research, applied research, and development. Defense-related outlays comprise all research and development spending by Dept. of Defense, including space activities, and a portion of Department of Energy funds. Space-related outlays are those of the National Aeronautics and Space Administration; they exclude space activities of other Federal agencies, estimated at less than 5 percent of all space research and development spending. Minus sign (—) indicates decrease.]

YEAR OR PERIOD	CURRENT DOLLARS (bil. dol.)			CONSTANT (1982) DOLLARS		ANNUAL PERCENT CHANGE <sup>3</sup>		PERCENT OF TOTAL R & D OUTLAYS					
								Federally funded defense-space-related			Other outlays		
	Total <sup>1</sup>	De- fense space relat- ed	Other	Total (bil. dol.)	Per- cent of GNP <sup>2</sup>	Cur- rent dol- lars	Con- stant dol- lars	Total	De- fense	Space	Total	Non- Fed- eral	Fed- eral
1955.....	6.2	3.0	3.1	22.8	1.5	9.4	6.1	48	48	1	51	43	8
1960.....	13.5	7.4	6.1	43.6	2.6	13.8	11.4	55	52	3	45	35	9
1961.....	14.3	8.0	6.3	45.8	2.7	5.9	4.8	56	50	6	44	35	9
1962.....	15.4	8.5	6.9	48.2	2.7	7.5	5.3	55	48	7	45	36	9
1963.....	17.1	9.4	7.7	52.6	2.8	10.8	9.2	55	41	14	45	34	11
1964.....	18.9	10.6	8.3	57.2	2.9	10.5	8.8	56	37	19	44	34	9
1965.....	20.0	10.8	9.2	59.4	2.8	8.3	3.8	54	33	21	46	35	11
1966.....	21.8	11.4	10.5	62.6	2.8	9.0	5.5	52	33	19	48	36	12
1967.....	23.1	11.3	11.8	64.4	2.8	6.0	2.9	49	35	14	51	38	13
1968.....	24.6	11.8	12.8	65.5	2.8	6.3	1.6	48	35	13	52	39	13
1969.....	25.6	11.5	14.1	64.7	2.7	4.2	-1.2	45	34	11	55	42	13
1970.....	26.1	11.2	14.9	62.4	2.6	2.0	-3.5	43	33	10	57	43	14
1971.....	26.7	10.9	15.7	60.4	2.4	2.1	-3.2	41	32	9	59	44	15
1972.....	28.5	11.7	16.8	61.4	2.4	6.8	1.7	41	32	9	59	44	15
1973.....	30.7	11.7	19.0	62.4	2.3	7.9	1.8	38	30	8	62	47	15
1974.....	32.9	11.5	21.4	61.5	2.2	7.0	-1.5	35	27	8	65	49	16
1975.....	35.2	12.0	23.2	59.9	2.2	7.1	-2.6	34	26	8	66	49	17
1976.....	39.0	13.3	25.7	62.1	2.2	10.8	3.8	34	26	8	66	49	17
1977.....	42.8	14.1	28.7	63.7	2.2	9.6	2.4	33	25	8	67	50	17
1978.....	48.1	14.9	33.2	66.8	2.1	12.5	4.9	31	24	7	69	50	19
1979.....	54.9	16.5	38.5	70.1	2.2	14.1	5.0	30	23	7	70	51	19
1980.....	62.6	18.2	44.5	73.2	2.3	13.9	4.5	29	22	7	71	53	18
1981.....	71.8	21.6	50.3	76.6	2.4	14.8	3.9	30	23	7	70	54	16
1982.....	79.3	25.4	53.9	79.3	2.5	10.4	3.5	32	25	7	68	54	14
1983.....	87.1	29.6	57.5	83.9	2.6	9.9	5.7	34	27	7	66	53	13
1984.....	87.3	34.0	63.2	89.9	2.6	11.6	7.2	35	29	6	65	53	12
1985, est.....	108.8	39.2	69.6	97.3	2.7	11.8	8.2	36	30	6	64	53	11
1986, est.....	118.6	43.9	74.7	102.5	2.8	9.0	5.4	37	30	7	63	53	10

<sup>1</sup> Includes revisions not shown in detail. <sup>2</sup> GNP=Gross national product. <sup>3</sup> Change from prior year shown; 1955 change from 1954.

Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources*, annual, and unpublished data.

No. 974. RESEARCH AND DEVELOPMENT (R&D)—SOURCE OF FUNDS AND PERFORMANCE SECTOR:  
1960 TO 1986

[In millions of dollars. See headnote, table 975]

YEAR	Total	SOURCE OF FUNDS				PERFORMANCE SECTOR					
		Federal Govt.	Indus-try	Univ., col-leges	Other <sup>1</sup>	Federal Govt.	Indus-try	Univ., col-leges	Associat-ed FFRDC's <sup>2</sup>	Other <sup>2</sup>	
<b>Current dollars:</b>											
1960.....	13,523	8,738	4,516	149	120	1,726	10,509	646	360	282	
1970.....	26,134	14,892	10,444	461	337	4,079	18,067	2,335	737	916	
1975.....	35,213	18,109	15,820	749	535	5,354	24,187	3,409	987	1,276	
1980.....	62,593	29,451	30,911	1,323	908	7,632	44,505	6,060	2,246	2,150	
1981.....	71,840	33,405	36,944	1,520	971	8,425	51,810	6,819	2,468	2,300	
1982.....	79,328	36,505	40,096	1,702	1,025	9,141	57,995	7,288	2,479	2,425	
1983.....	87,178	40,667	43,514	1,864	1,133	10,562	63,403	7,781	2,737	2,675	
1984.....	97,275	45,249	48,821	2,000	1,205	11,572	71,137	8,473	3,118	2,975	
1985, est.....	108,800	50,915	54,385	2,200	1,300	13,150	79,500	9,500	3,400	3,250	
1986, est.....	118,600	55,250	59,475	2,500	1,375	14,000	87,000	10,600	3,600	3,400	
<b>Constant (1982) dollars:</b>											
1960.....	43,648	28,191	14,591	479	387	5,548	33,955	2,077	1,157	911	
1970.....	62,405	35,636	24,851	1,111	807	9,834	42,986	5,629	1,777	2,179	
1975.....	59,883	30,986	26,679	1,302	916	9,308	40,781	5,927	1,716	2,151	
1980.....	73,235	34,546	36,084	1,561	1,065	9,006	51,919	7,151	2,650	2,508	
1981.....	76,610	35,685	38,257	1,631	1,037	9,039	55,140	7,316	2,667	2,448	
1982.....	79,328	36,505	40,096	1,702	1,025	9,141	57,995	7,288	2,479	2,425	
1983.....	83,862	39,090	41,895	1,788	1,089	10,151	61,047	7,464	2,625	2,576	
1984.....	89,937	41,813	45,166	1,845	1,113	10,677	65,813	7,818	2,877	2,752	
1985, est.....	97,283	45,481	48,682	1,960	1,161	11,715	71,166	8,483	3,029	2,909	
1986, est.....	102,504	47,722	51,438	2,156	1,187	12,072	75,246	9,140	3,104	2,941	

<sup>1</sup> Federally-funded R & D centers. <sup>2</sup> Nonprofit institutions.

Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources*, annual.

**NO. 975. RESEARCH AND DEVELOPMENT (R & D) FUNDS, BY PERFORMANCE SECTOR AND SOURCE:  
1970 TO 1986**

(In millions of dollars, except percent. Data primarily on calendar year basis—calendar year data for industry and other nonprofit institutions combined with Federal and university fiscal year data. Data refer, in general, to natural sciences including engineering, and to social sciences in all but industry sector. Excludes capital expenditures data. Expenditures at associated federally funded research and development centers administered by industry and other nonprofit institutions included in totals of respective sectors. See also *Historical Statistics, Colonial Times to 1970*, series W 109-125]

PERFORMANCE SECTOR AND SOURCE OF FUNDS	1970	1975	1976	1979	1980	1981	1982	1983	1984	1985	1986, est.
<b>Total R &amp; D<sup>1</sup></b>	<b>26,134</b>	<b>35,213</b>	<b>48,129</b>	<b>54,933</b>	<b>62,593</b>	<b>71,840</b>	<b>79,328</b>	<b>87,178</b>	<b>97,275</b>	<b>108,800</b>	<b>118,800</b>
In 1982 dollars	62,405	59,863	66,769	70,077	73,235	76,510	79,328	83,862	89,937	97,283	102,504
Percent Federal as source	57.0	51.4	49.6	48.8	47.1	46.5	46.0	46.6	46.5	46.8	46.6
Percent of gross national product	2.6	2.2	2.1	2.2	2.3	2.4	2.5	2.6	2.6	2.7	2.8
<b>Federal Government</b>	<b>4,079</b>	<b>5,354</b>	<b>6,811</b>	<b>7,417</b>	<b>7,632</b>	<b>8,425</b>	<b>9,141</b>	<b>10,582</b>	<b>11,572</b>	<b>13,150</b>	<b>14,000</b>
Industry	18,087	24,187	33,304	38,226	44,505	51,810	57,895	63,403	71,137	79,500	87,000
Federal funds	7,779	8,605	11,189	12,518	14,029	16,382	18,483	20,542	23,072	26,000	28,500
Industry funds	10,288	15,582	22,115	25,708	30,476	35,428	39,512	42,861	48,065	53,500	58,500
<b>Universities and colleges</b>	<b>2,335</b>	<b>3,409</b>	<b>4,625</b>	<b>5,361</b>	<b>6,080</b>	<b>6,819</b>	<b>7,289</b>	<b>7,781</b>	<b>8,473</b>	<b>9,500</b>	<b>10,600</b>
Federal funds	1,648	2,288	3,059	3,595	4,094	4,562	4,752	4,956	5,387	6,050	6,750
Industry funds	81	113	170	183	235	291	334	378	456	550	600
University and college funds <sup>2</sup>	481	749	1,037	1,200	1,323	1,520	1,702	1,864	2,000	2,200	2,500
Other nonprofit institutions funds <sup>2</sup>	165	259	359	373	408	446	500	583	630	700	750
<b>Universities and colleges, associated federally funded R &amp; D centers</b>	<b>737</b>	<b>987</b>	<b>1,717</b>	<b>1,935</b>	<b>2,246</b>	<b>2,496</b>	<b>2,479</b>	<b>2,737</b>	<b>3,118</b>	<b>3,400</b>	<b>3,600</b>
Other nonprofit institutions	916	1,276	1,672	1,994	2,160	2,300	2,425	2,675	2,976	3,250	3,400
Federal funds	649	875	1,100	1,350	1,450	1,550	1,650	1,850	2,100	2,315	2,400
Industry funds	85	125	165	180	200	225	250	275	300	335	375
Other <sup>3</sup>	172	276	407	464	500	525	525	550	575	600	625
<b>Total research, basic and applied</b>	<b>9,269</b>	<b>12,471</b>	<b>17,236</b>	<b>19,829</b>	<b>22,129</b>	<b>26,057</b>	<b>28,467</b>	<b>31,383</b>	<b>34,419</b>	<b>37,225</b>	<b>39,750</b>
In 1982 dollars	22,198	21,358	23,950	25,091	25,982	27,836	28,497	30,167	31,807	33,254	34,335
Percent Federal as source	60.1	58.8	56.1	55.6	54.9	52.5	51.9	52.6	51.1	49.8	49.0
<b>Federal Government</b>	<b>1,904</b>	<b>2,484</b>	<b>3,221</b>	<b>3,481</b>	<b>3,666</b>	<b>4,034</b>	<b>4,194</b>	<b>4,710</b>	<b>4,764</b>	<b>5,050</b>	<b>5,100</b>
Industry	4,029	5,300	7,335	8,383	9,775	12,313	14,055	15,676	17,730	19,100	20,400
Federal funds	1,207	1,287	1,680	1,820	2,190	2,641	3,330	4,081	4,447	4,400	4,500
Industry funds	2,822	4,013	5,655	6,563	7,585	9,672	10,725	11,595	13,283	14,700	15,900
<b>Universities and colleges</b>	<b>2,223</b>	<b>3,261</b>	<b>4,389</b>	<b>5,077</b>	<b>5,717</b>	<b>6,442</b>	<b>6,873</b>	<b>7,344</b>	<b>7,998</b>	<b>8,950</b>	<b>10,000</b>
Federal funds	1,584	2,210	2,937	3,435	3,886	4,337	4,517	4,711	5,117	5,730	6,400
Industry funds	56	106	165	177	215	265	304	347	421	505	550
University and college funds <sup>2</sup>	448	702	959	1,115	1,293	1,419	1,582	1,738	1,870	2,060	2,350
Other nonprofit institutions funds <sup>2</sup>	155	243	338	350	383	421	470	548	590	655	700
<b>Universities and colleges, associated federally funded R &amp; D centers</b>	<b>485</b>	<b>573</b>	<b>1,116</b>	<b>1,298</b>	<b>1,486</b>	<b>1,663</b>	<b>1,665</b>	<b>1,833</b>	<b>2,002</b>	<b>2,100</b>	<b>2,200</b>
Other nonprofit institutions	628	873	1,175	1,390	1,485	1,605	1,680	1,820	1,925	2,025	2,050
Federal funds	409	545	720	880	930	1,010	1,075	1,160	1,250	1,310	1,280
Industry funds	77	103	135	145	160	180	200	220	240	265	295
Other <sup>3</sup>	142	225	320	365	395	415	405	420	435	450	465
<b>Total basic research</b>	<b>3,549</b>	<b>4,608</b>	<b>6,392</b>	<b>7,257</b>	<b>8,079</b>	<b>9,180</b>	<b>9,947</b>	<b>11,028</b>	<b>12,123</b>	<b>13,325</b>	<b>14,450</b>
In 1982 dollars	8,527	7,951	8,897	9,296	9,506	9,828	9,947	10,580	11,195	11,888	12,471
Percent of total R & D	13.6	13.1	13.3	13.2	12.9	12.8	12.5	12.6	12.5	12.2	12.2
Percent Federal as source	70.1	68.1	69.5	69.5	68.8	67.7	66.8	65.9	65.1	64.9	63.9
<b>Federal Government</b>	<b>577</b>	<b>734</b>	<b>1,029</b>	<b>1,089</b>	<b>1,162</b>	<b>1,302</b>	<b>1,465</b>	<b>1,690</b>	<b>1,861</b>	<b>1,950</b>	<b>2,000</b>
Industry	602	730	1,035	1,158	1,325	1,614	1,880	2,171	2,578	2,850	3,100
Federal funds	158	157	250	285	290	301	380	464	551	600	650
Industry funds	444	573	785	893	1,035	1,313	1,500	1,707	2,027	2,250	2,450
<b>Universities and colleges</b>	<b>1,796</b>	<b>2,410</b>	<b>3,176</b>	<b>3,612</b>	<b>4,026</b>	<b>4,576</b>	<b>4,887</b>	<b>5,239</b>	<b>5,622</b>	<b>6,350</b>	<b>7,100</b>
Federal funds	1,296	1,694	2,284	2,572	2,851	3,250	3,396	3,532	3,762	4,300	4,750
Industry funds	40	72	99	113	135	170	198	227	277	345	375
University and college funds <sup>2</sup>	350	478	605	711	805	908	992	1,125	1,203	1,290	1,530
Other nonprofit institutions funds <sup>2</sup>	110	166	208	216	235	250	281	355	360	415	445
<b>Universities and colleges, associated federally funded R &amp; D centers</b>	<b>269</b>	<b>309</b>	<b>567</b>	<b>716</b>	<b>786</b>	<b>863</b>	<b>870</b>	<b>983</b>	<b>1,052</b>	<b>1,100</b>	<b>1,150</b>
Other nonprofit institutions	305	425	585	680	760	825	865	945	1,010	1,075	1,100
Federal funds	189	245	335	400	450	495	535	600	650	695	690
Industry funds	44	60	80	85	95	105	115	125	135	150	170
Other <sup>3</sup>	72	120	170	195	215	225	215	220	225	230	240
<b>Total development</b>	<b>16,885</b>	<b>22,742</b>	<b>30,893</b>	<b>35,304</b>	<b>40,464</b>	<b>45,783</b>	<b>50,861</b>	<b>55,795</b>	<b>62,856</b>	<b>71,575</b>	<b>78,850</b>
In 1982 dollars	40,206	38,525	42,819	44,986	47,273	48,774	50,881	53,695	58,131	64,029	68,169
Percent of total R & D	64.5	64.6	64.2	64.3	64.6	63.7	64.1	64.0	64.6	65.8	66.5
Percent Federal as source	55.3	48.5	46.0	45.0	44.2	43.1	42.7	43.3	44.0	45.2	45.4

<sup>1</sup> Basic research, applied research, and development. <sup>2</sup> Includes State and local government funds received by these institutions and used for research and development. <sup>3</sup> Includes estimates for independent nonprofit hospitals and voluntary health agencies.

Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources*, annual.

# NO. 976. FEDERAL FUNDING FOR RESEARCH AND DEVELOPMENT, BY BUDGET FUNCTION: 1976 TO 1987

[In millions of dollars. For fiscal years ending in year shown; see text, section 10. Excludes R&D plant. Data for 1976-77 are shown in obligations, and for 1978-87 are shown in budget authority. See *Historical Statistics, Colonial Times to 1970*, series W 126, for total obligations]

FUNCTION	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986, est.	1987, est.
<b>Total<sup>1</sup></b>	<b>20,780</b>	<b>23,460</b>	<b>25,976</b>	<b>28,208</b>	<b>29,739</b>	<b>33,735</b>	<b>36,115</b>	<b>38,768</b>	<b>44,214</b>	<b>49,887</b>	<b>53,235</b>	<b>61,489</b>
National defense	10,430	11,864	12,899	13,791	14,846	18,413	22,070	24,936	29,287	33,698	36,825	45,420
Health	2,351	2,629	2,989	3,401	3,894	3,871	3,869	4,298	4,779	5,418	5,466	5,433
Space research and technology	3,130	2,832	2,939	3,136	2,738	3,111	2,584	2,134	2,300	2,725	2,885	3,249
General science	858	974	1,050	1,119	1,233	1,340	1,359	1,502	1,676	1,862	1,851	2,113
Energy	1,649	2,562	3,134	3,461	3,603	3,501	3,012	2,578	2,581	2,389	2,593	1,746
Transportation	631	708	768	798	887	869	791	878	1,040	1,030	917	952
Natural resources and environment	683	753	904	1,010	999	1,061	965	952	863	1,059	1,083	939
Agriculture	383	457	501	552	585	559	693	745	762	836	800	796
Education, training, employment <sup>2</sup>	255	230	345	354	468	298	228	189	200	220	214	223
International affairs	42	66	57	117	125	160	165	177	192	210	206	203
Veterans benefits and services	98	107	111	123	126	143	139	157	218	193	181	189
Commerce and housing credit	69	71	77	93	101	106	104	107	110	114	111	105
Administration of justice	35	30	44	47	45	34	31	37	24	47	49	45
Community and regional develop.	109	101	92	127	119	104	63	44	46	50	41	42

<sup>1</sup> Includes functions not shown separately.

<sup>2</sup> Includes social services.

Source: U.S. National Science Foundation, *Federal R&D Funding by Budget Function*, annual.

# NO. 977. FEDERAL OBLIGATIONS FOR RESEARCH, BY FIELD OF SCIENCE: 1976 TO 1986

[In millions of dollars. For fiscal years ending in year shown; see text, section 10. See headnote, table 976]

FIELD	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985, est.	1986, est.
<b>Research, total</b>	<b>7,619</b>	<b>8,514</b>	<b>9,807</b>	<b>10,535</b>	<b>11,597</b>	<b>12,213</b>	<b>13,022</b>	<b>14,254</b>	<b>14,979</b>	<b>15,887</b>	<b>15,718</b>
Basic	2,788	3,259	3,699	4,193	4,674	5,041	5,482	6,260	7,067	7,787	7,975
Applied	4,852	5,256	5,908	6,342	6,923	7,172	7,540	7,993	7,911	8,100	7,843
Life sciences	2,650	3,008	3,427	3,848	4,192	4,436	4,746	5,178	5,836	6,292	6,040
Engineering	2,069	2,113	2,421	2,572	2,830	3,072	3,387	3,517	3,824	3,504	3,538
Physical sciences	1,259	1,530	1,846	1,793	2,001	2,221	2,500	2,891	2,869	3,036	3,040
Environmental sciences	769	906	1,025	1,101	1,261	1,121	1,148	1,251	1,276	1,358	1,316
Mathematics, computer sciences	158	196	216	210	241	279	350	419	440	579	635
Social sciences <sup>1</sup>	393	426	490	527	524	497	386	435	436	463	417
Economics	138	143	163	182	193	207	157	168	147	152	142
Psychology	144	158	177	197	199	209	218	241	267	293	304
Other sciences	179	179	206	287	350	379	287	320	331	363	427

<sup>1</sup> Includes other sciences not shown separately.

Source: U.S. National Science Foundation, *Federal Funds for Research and Development*, annual.

# NO. 978. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: 1976 TO 1986

[In millions of dollars except percent. For fiscal years ending in year shown; see text, section 10. See *Historical Statistics, Colonial Times to 1970*, series W 142, for total R&D expenditures. Minus sign (-) indicates decline]

AGENCY	1976	1981	1982	1983	1984	1985, est.	1986, est.	PERCENT CHANGE		
								1983-84	1984-85	1985-86
<b>Obligations, total</b>	<b>20,780</b>	<b>33,104</b>	<b>36,433</b>	<b>38,712</b>	<b>42,225</b>	<b>49,452</b>	<b>56,013</b>	<b>9.1</b>	<b>17.1</b>	<b>13.3</b>
Dept. of Defense	9,655	16,509	20,623	22,993	25,373	30,959	37,933	10.4	22.0	22.5
National Aeronautics and Space Administration	3,447	3,593	3,078	2,662	2,822	3,297	3,753	6.0	16.8	13.8
Dept. of Commerce	229	328	336	335	358	381	275	8.9	6.4	-27.8
Dept. of Energy	2,464	4,918	4,708	4,537	4,674	4,648	4,694	9.0	3.7	-5.2
Dept. of Health and Human Services	2,461	3,927	3,941	4,353	4,831	5,454	5,143	11.0	12.9	-5.7
National Science Foundation	609	962	975	1,062	1,203	1,353	1,445	13.3	12.5	6.8
Dept. of Agriculture	462	774	797	848	866	939	882	2.1	8.4	-6.1
Dept. of Transportation	295	416	310	348	448	482	365	28.7	7.6	-24.3
Dept. of the Interior	333	427	381	383	411	411	368	7.3	-	-10.5
Environmental Protection Agency	259	326	335	241	261	312	331	8.3	19.5	6.1
Nuclear Regulatory Commission	88	220	220	207	191	150	136	-7.7	-21.5	-9.3
Veterans Administration	98	144	137	161	190	226	190	18.0	18.9	-15.9
Agency for International Development	38	134	200	227	237	220	232	4.4	7.2	5.5
Dept. of Education <sup>2</sup>	123	105	128	112	116	138	118	3.6	17.2	-13.2
Other agencies	219	322	263	243	244	284	248	.4	16.4	-12.7

- Represents zero. <sup>1</sup> Energy Research and Development Administration. <sup>2</sup> Health, Education, and Welfare. See table 516 for complete list of agencies. <sup>3</sup> Includes National Institute of Education, Office of the Assistant Secretary for Education and Office of Education.

Source: U.S. National Science Foundation, *Federal Funds for Research and Development*, annual.

### NO. 979. FUNDS FOR PERFORMANCE OF INDUSTRIAL RESEARCH AND DEVELOPMENT (R&D), BY INDUSTRY: 1970 TO 1984

[In millions of dollars. Covers basic research, applied research, and development. See also *Historical Statistics, Colonial Times to 1970*, series W 144-160]

SIC <sup>1</sup> code	INDUSTRY	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984
	<b>Total<sup>2</sup></b>	<b>16,067</b>	<b>24,187</b>	<b>29,825</b>	<b>33,304</b>	<b>38,226</b>	<b>44,505</b>	<b>51,810</b>	<b>57,996</b>	<b>63,403</b>	<b>71,137</b>
372, 376	Aircraft and missiles.....	5,219	5,713	7,033	7,536	8,041	9,198	11,988	13,658	13,853	16,076
36	Electrical equipment.....	4,220	5,105	5,886	6,507	7,824	9,175	10,329	11,642	13,950	15,122
35	Machinery.....	1,729	3,196	3,880	4,283	4,825	5,901	6,818	7,835	8,386	9,671
28	Chemicals and allied products.....	1,773	2,727	3,202	3,580	4,038	5,625	6,525	6,859	7,293	8,024
371	Motor vehicles, transportation equipment.....	1,581	2,430	3,478	4,010	4,668	5,117	<sup>3</sup> 4,970	<sup>3</sup> 4,970	<sup>3</sup> 5,500	<sup>3</sup> 6,250
38	Professional and scientific instruments.....	744	1,173	1,571	1,998	2,505	3,029	3,614	4,019	4,444	4,910
29	Petroleum refining.....	515	693	918	1,060	1,262	1,552	(d)	(d)	(d)	(d)
33	Primary metals.....	275	443	538	580	634	728	878	1,000	1,115	1,093
30	Rubber products.....	276	487	491	493	577	656	(d)	(d)	(d)	(d)
34	Fabricated metal products.....	207	324	386	384	455	550	624	568	604	756
20	Food and kindred products.....	230	335	415	472	528	620	(d)	(d)	(d)	(d)
26	Paper and allied products.....	178	249	333	387	445	495	(d)	626	(d)	(d)
32	Stone, clay, and glass products.....	167	233	287	324	356	406	(d)	(d)	(d)	(d)

D Withheld to avoid disclosure. <sup>1</sup> Standard industrial classification. <sup>2</sup> Includes industries not available separately. <sup>3</sup> Estimated.

Source: U.S. National Science Foundation, *Research and Development in Industry*, annual.

### NO. 980. COMPANIES PERFORMING RESEARCH AND DEVELOPMENT (R&D)—SELECTED DATA, BY INDUSTRY GROUP: 1975 TO 1984

SIC <sup>1</sup> code	INDUSTRY GROUP	R & D FUNDS (mil. dol.)				R & D FUNDS AS PERCENT OF NET SALES				R & D SCIENTISTS/ENGINEERS <sup>2</sup> (1,000)			
		1975	1980	1983	1984	1975	1980	1983	1984	1975	1980	1983	1984
	<b>Total<sup>3</sup></b>	<b>24,187</b>	<b>44,505</b>	<b>63,403</b>	<b>71,137</b>	<b>3.1</b>	<b>3.0</b>	<b>3.9</b>	<b>3.8</b>	<b>363.3</b>	<b>450.6</b>	<b>522.1</b>	<b>544.5</b>
372, 376	Aircraft and missiles.....	5,713	9,198	13,853	16,076	12.7	13.7	16.2	16.9	67.5	85.9	95.5	96.5
36	Electrical equipment.....	5,105	9,175	13,950	15,122	6.5	6.6	8.6	7.2	82.6	94.5	110.3	116.1
35	Machinery.....	3,196	5,901	8,386	9,671	4.8	5.0	5.9	6.0	52.8	62.1	76.3	75.0
28	Chemicals and allied products.....	2,727	4,636	7,293	8,024	3.7	3.6	4.4	4.5	45.2	51.4	66.0	67.1
371	Motor vehicles, transport. equipment.....	2,430	5,117	<sup>4</sup> 5,500	<sup>4</sup> 6,250	3.3	3.9	<sup>4</sup> 3.8	<sup>4</sup> 3.4	27.9	39.7	<sup>4</sup> 30.9	<sup>4</sup> 30.5
38	Professional and scientific instruments.....	1,173	3,029	4,444	4,910	5.9	7.5	9.4	9.3	17.9	32.8	(d)	(d)
29	Petroleum refining.....	693	1,552	(d)	(d)	.7	.8	(d)	(d)	8.4	10.8	14.7	13.2
33	Primary metals.....	443	728	1,115	1,093	.8	.7	1.3	1.2	6.3	8.1	8.4	8.5
30	Rubber products.....	487	656	(d)	(d)	2.5	2.2	(d)	(d)	8.4	(d)	(d)	(d)
34	Fabricated metal products.....	324	550	604	756	1.2	1.4	1.5	1.7	7.4	7.8	(d)	12.9
20	Food and kindred products.....	335	620	(d)	(d)	.4	.4	(d)	(d)	6.8	7.2	7.8	7.6
26	Paper and allied products.....	249	495	(d)	(d)	.9	1.0	(d)	1.2	5.0	7.4	8.3	7.9
32	Stone, clay, and glass products.....	233	406	(d)	(d)	1.2	1.4	(d)	(d)	4.5	5.4	5.0	4.6

D Withheld to avoid disclosure. <sup>1</sup> Standard industrial classification.

<sup>2</sup> As of January. <sup>3</sup> Includes industries not available. <sup>4</sup> Estimated.

Source: U.S. National Science Foundation, *Research and Development in Industry*, annual.

### NO. 981. FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES: 1970 TO 1984

[In millions of dollars, except percent. For fiscal years ending in year shown; see text, section 10. Total and nonscience/engineering activities for 1981-1983 are estimates based on revised student aid data from the Dept. of Education. Minus sign (-) indicates decrease]

ITEM	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
<b>Federal obligations, total.....</b>	<b>3,237</b>	<b>4,547</b>	<b>5,403</b>	<b>6,490</b>	<b>7,472</b>	<b>7,604</b>	<b>8,298</b>	<b>8,640</b>	<b>8,776</b>	<b>9,337</b>	<b>10,118</b>
Annual percent change <sup>1</sup> .....	-6.5	1.5	18.8	20.1	15.1	1.8	9.1	4.1	1.6	6.4	8.4
<b>Academic science/engineering obligations.....</b>	<b>2,188</b>	<b>2,806</b>	<b>2,960</b>	<b>3,351</b>	<b>3,960</b>	<b>4,473</b>	<b>4,790</b>	<b>5,082</b>	<b>5,179</b>	<b>5,680</b>	<b>6,390</b>
Percent of total.....	67.6	61.7	54.8	51.6	53.0	58.8	57.7	58.6	59.0	60.8	63.2
Research and development.....	1,447	2,246	2,431	2,803	3,386	3,874	4,160	4,410	4,554	5,024	5,636
Research and development plant.....	45	45	24	36	34	32	38	28	31	36	50
Other science/engineering activities.....	696	515	505	512	540	567	593	624	594	619	705
Nonscience/engineering activities.....	1,049	1,741	2,443	3,138	3,512	3,131	3,508	3,578	3,597	3,657	3,728

<sup>1</sup> For 1970, change from 1969, for 1975, change from 1974.

Source: U.S. National Science Foundation, *Survey of Federal Support to Universities, Colleges, and Selected Nonprofit Institutions*, annual.

# NO. 982. NOBEL PRIZE LAUREATES IN CHEMISTRY, PHYSICS, AND PHYSIOLOGY/MEDICINE—SELECTED COUNTRIES: 1901 TO 1985

[Presented by location of award-winning research and by date of award]

COUNTRY	1901-1985				1901-1915	1916-1930	1931-1945	1946-1960	1961-1975	1976-1985
	Total	Phys-ics	Chem-istry	Physi-ology/Medi-cine						
<b>Total</b> .....	<b>370</b>	<b>126</b>	<b>103</b>	<b>141</b>	<b>52</b>	<b>41</b>	<b>49</b>	<b>74</b>	<b>92</b>	<b>62</b>
United States.....	139	49	29	61	3	3	14	38	41	40
United Kingdom.....	68	21	24	23	7	6	11	14	20	8
Germany, Fed. Rep. of <sup>1</sup> .....	52	15	25	12	15	12	11	4	8	2
Japan.....	4	3	1	-	-	-	-	1	2	1
France.....	21	8	6	7	10	3	2	-	5	1
Soviet Union.....	10	7	1	2	2	-	-	4	3	1
Other countries.....	76	23	17	36	15	15	11	14	15	9

- Represents zero. <sup>1</sup> Includes East Germany before 1946.

Source: U.S. National Science Foundation, unpublished data.

## NO. 983. NATIONAL RESEARCH AND DEVELOPMENT EXPENDITURES AS A PERCENT OF GROSS NATIONAL PRODUCT, BY COUNTRY: 1965 TO 1985

YEAR	United States	France <sup>1</sup>	Germany, Fed. Rep.	Japan	United Kingdom	Soviet Union	YEAR	United States	France <sup>1</sup>	Germany, Fed. Rep.	Japan	United Kingdom	Soviet Union
1965.....	2.8	2.0	1.7	1.5	(NA)	2.9	1976.....	2.2	1.8	2.1	1.9	(NA)	3.6
1966.....	2.8	2.1	1.8	1.5	2.3	2.9	1977.....	2.2	1.8	2.1	1.9	(NA)	3.5
1967.....	2.8	2.1	2.0	1.5	2.3	2.9	1978.....	2.1	1.8	2.2	2.0	2.2	3.5
1968.....	2.8	2.1	2.0	1.6	2.3	(NA)	1979.....	2.2	1.8	2.4	2.1	(NA)	3.6
1969.....	2.7	1.9	1.8	1.6	2.3	3.0	1980.....	2.3	1.8	2.4	2.2	(NA)	3.8
1970.....	2.6	1.9	2.1	1.8	(NA)	3.3	1981.....	2.4	2.0	2.5	2.4	2.4	3.7
1971.....	2.4	1.9	2.2	1.9	(NA)	3.5	1982.....	2.5	2.1	2.6	2.5	(NA)	3.7
1972.....	2.4	1.9	2.2	1.9	2.1	3.7	1983.....	2.6	2.2	2.5	2.6	2.2	3.8
1973.....	2.3	1.8	2.1	1.9	(NA)	3.8	1984.....	2.6	2.2	2.5	2.6	(NA)	3.9
1974.....	2.2	1.8	2.1	2.0	(NA)	3.7	1985.....	2.7	2.3	2.6	(NA)	(NA)	(NA)
1975.....	2.2	1.8	2.2	2.0	2.2	3.8							

NA Not available. <sup>1</sup> Percent of gross domestic product.

Source: U.S. National Science Foundation, *Science Indicators*, biennial; *National Patterns of Science and Technology Resources*, annual; and *International Science and Technology Data Update*, annual.

## NO. 984. RESEARCH AND DEVELOPMENT (R&D) EXPENDITURES IN SCIENCE AND ENGINEERING AT UNIVERSITIES AND COLLEGES: 1980 TO 1984

[In millions of dollars. Estimates for nonrespondents account for less than 8 percent of the total]

CHARACTERISTIC	1980	1982	1983	1984	CHARACTERISTIC	1980	1982	1983	1984
<b>Total</b> .....	<b>6,060</b>	<b>7,288</b>	<b>7,781</b>	<b>8,473</b>	<b>Field:</b>				
In 1972 dollars <sup>1</sup> .....	3,412	3,487	3,575	3,751	Life sciences.....	3,217	3,977	4,212	4,580
Basic research.....	4,026	4,867	5,239	5,622	Engineering.....	865	1,029	1,109	1,203
Applied R&D.....	2,034	2,421	2,543	2,851	Physical sciences.....	677	826	899	995
Source of funds:					Environmental sciences.....	509	560	620	647
All Governments.....	4,587	5,363	5,576	6,039	Social sciences and other.....	488	513	520	546
Institutions' own funds.....	827	1,091	1,242	1,347	Economics.....	90	96	97	108
Industry.....	237	334	378	457	Mathematics and computer sciences.....	193	249	283	346
Other.....	409	500	583	630	Psychology.....	111	133	139	147

<sup>1</sup> Based on GNP implicit price deflator, see text, p. 413.

Source: U.S. National Science Foundation, *Survey of Scientific and Engineering Expenditures at Universities and Colleges*, annual.

## NO. 985. SCIENTISTS AND ENGINEERS EMPLOYED IN RESEARCH AND DEVELOPMENT: 1970 TO 1985

[In thousands of full-time equivalent employees. Yearly averages for industry sector only. Excludes those employed by State and local government agencies, except as noted. DOD=Dept. of Defense. FFRDC's=federally funded R&D centers]

SECTOR	1970	1975	1978	1979	1980	1981	1982	1983 <sup>1</sup>	1984 <sup>1</sup>	1985 <sup>1</sup>
<b>Total</b> .....	<b>544.5</b>	<b>527.7</b>	<b>587.0</b>	<b>615.0</b>	<b>651.7</b>	<b>683.7</b>	<b>702.8</b>	<b>722.9</b>	<b>750.7</b>	<b>790.0</b>
Industry (excl. social scientists) <sup>2</sup> .....	375.6	363.8	414.2	437.2	469.2	498.8	516.0	533.3	557.4	590.0
Universities and colleges, total.....	68.5	69.8	76.6	78.6	81.2	83.3	84.4	85.5	89.6	93.3
Scientists and engineers.....	50.3	51.2	56.0	58.9	57.9	58.9	59.5	60.6	62.5	65.8
Graduate students.....	18.2	18.6	20.6	21.7	23.3	24.4	24.9	24.9	26.1	27.5
Federal Government (incl. DOD).....	67.7	58.4	57.1	57.6	58.6	59.2	60.0	61.3	61.5	61.5
University-associated FFRDC's.....	11.5	12.7	14.1	14.1	15.2	15.4	15.4	15.3	15.2	15.7
Other nonprofit institutions <sup>2</sup> .....	21.2	23.0	25.0	27.5	27.5	27.0	27.0	27.5	28.0	29.5

<sup>1</sup> Estimated. <sup>2</sup> Includes professional R&D personnel employed at FFRDC's administered by industry and other nonprofit institutions.

<sup>3</sup> Includes estimate for R&D scientists and engineers employed in State-affiliated institutions.

Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources*, annual.

## NO. 986. SCIENTISTS AND ENGINEERS, BY FIELD, LABOR FORCE STATUS, AND SEX: 1980 TO 1984

[In thousands, except percent. Represents the total science and engineering population in the United States]

FIELD	1980			1982			1984		
	Total		In labor force	Total		In labor force	Total		In labor force
	Number	Percent female		Number	Percent female		Number	Percent female	
<b>Total, all fields</b> .....	<b>3,083</b>	<b>11.5</b>	<b>2,917</b>	<b>3,506</b>	<b>12.5</b>	<b>3,327</b>	<b>4,247</b>	<b>13.3</b>	<b>4,061</b>
Engineers, total.....	1,800	3.0	1,701	1,987	3.3	1,883	2,352	3.4	2,241
Scientists, total.....	1,283	23.4	1,216	1,519	24.5	1,444	1,895	25.4	1,819
Life scientists.....	313	19.2	295	366	21.5	346	394	24.8	361
Computer specialists.....	215	28.7	210	309	27.3	302	445	26.6	439
Physical scientists.....	235	10.3	220	244	10.6	233	238	11.6	259
Social scientists.....	229	29.5	214	254	30.0	250	357	28.4	341
Economists.....	94	15.9	78	114	18.8	108	136	15.7	130
Other social scientists.....	145	37.3	136	151	38.4	142	221	37.9	212
Psychologists.....	137	39.4	132	149	40.9	143	223	42.9	215
Environmental scientists.....	84	14.2	79	95	14.8	80	106	11.4	101
Mathematical scientists.....	70	29.6	66	86	32.8	81	108	22.6	103

Source: National Science Foundation, *U.S. Scientists and Engineers*, and unpublished data.

## NO. 987. CHARACTERISTICS OF EMPLOYED SCIENTISTS AND ENGINEERS: 1984

[Percent distribution, except as indicated. Represents the total science and engineering employment in the United States]

CHARACTERISTIC	Total	Engi-neers	Life sci-entists	Comput-or special-ists	Physi-cal sci-entists	Social scientists			Psy-chologists	Environ-mental sci-entists	Mathe-matical sci-entists
						Total	Econo-mists	Other social sci-entists			
<b>Total (1,000)</b> .....	<b>3,996</b>	<b>2,214</b>	<b>353</b>	<b>437</b>	<b>254</b>	<b>329</b>	<b>126</b>	<b>204</b>	<b>210</b>	<b>98</b>	<b>100</b>
Male.....	87.2	96.6	76.6	73.9	88.9	77.9	85.1	63.8	57.8	89.5	78.2
Female.....	12.8	3.4	23.4	26.1	11.1	28.1	14.9	36.2	47.2	10.5	21.8
Highest degree:											
Doctorate.....	9.6	3.0	25.1	3.4	25.7	18.4	13.9	21.2	22.9	16.3	19.1
Master's.....	26.2	22.6	24.8	23.8	32.7	29.5	34.0	26.7	46.0	31.8	48.1
Bachelor's.....	54.9	59.7	45.8	71.4	38.8	49.1	49.8	48.8	27.2	49.5	30.5
Other.....	9.4	14.7	4.3	1.4	2.7	3.0	2.4	3.4	3.9	2.3	2.3
Type of employer:											
Industry.....	68.7	80.6	36.7	79.1	57.9	48.8	60.4	41.6	38.8	59.2	41.1
Educational institutions.....	13.4	3.7	37.1	6.9	24.1	28.8	23.6	31.9	36.1	18.0	46.1
Nonprofit organizations.....	3.6	1.6	6.9	2.8	4.0	6.1	2.5	8.3	18.0	1.3	2.1
Federal Government.....	7.7	7.5	11.0	6.7	9.6	5.8	8.4	4.2	2.3	15.2	8.6
Military.....	1.0	.7	.3	.6	.4	.8	.6	.9	.4	1.5	.3
State, local, and other government.....	5.0	4.7	7.0	3.3	3.4	9.1	3.4	12.6	5.3	5.8	1.3
Other.....	1.0	1.1	1.0	.6	.6	.7	1.0	.5	1.1	.9	.5

Source: U.S. National Science Foundation, *U.S. Scientists and Engineers: 1984*.

## NO. 988. RESEARCH AND DEVELOPMENT SCIENTISTS AND ENGINEERS—AVERAGE FULL-TIME-EQUIVALENT EMPLOYMENT AND COST, BY INDUSTRY: 1970 TO 1984

[Data are estimates; on average full-time-equivalent (FTE) basis. See *Historical Statistics, Colonial Times to 1970*, series W 167, for total cost per scientist or engineer]

INDUSTRY	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
<b>Average FTE of scientists and engineers (1,000)</b> .....	<b>375.6</b>	<b>358.9</b>	<b>361.7</b>	<b>363.8</b>	<b>373.6</b>	<b>393.6</b>	<b>414.2</b>	<b>437.3</b>	<b>469.2</b>	<b>498.8</b>	<b>516.0</b>	<b>533.3</b>	<b>557.4</b>
Chemicals <sup>1</sup> .....	41.4	41.4	43.5	44.8	45.4	47.4	49.2	50.7	53.1	58.2	63.8	66.6	67.0
Machinery.....	42.5	48.7	51.9	54.3	55.5	56.6	59.0	61.2	65.7	72.6	76.2	75.7	76.3
Electrical equipment <sup>2</sup> .....	96.2	94.0	82.6	81.5	82.2	84.3	84.7	89.8	100.7	108.4	110.0	113.2	118.8
Motor vehicles <sup>3</sup> .....	26.9	29.6	28.6	27.5	28.6	32.0	35.5	38.5	38.1	33.9	31.0	30.7	30.8
Aircraft and missiles.....	55.2	71.4	69.1	67.2	69.5	77.0	84.3	86.2	90.6	93.2	83.3	96.0	102.4
Other industries.....	83.5	83.8	86.0	88.5	92.4	96.3	101.5	110.9	121.0	132.5	141.7	151.2	162.2
<b>Cost per scientist or engineer (\$1,000)</b> <sup>4</sup> .....	<b>48.1</b>	<b>59.2</b>	<b>63.3</b>	<b>66.5</b>	<b>72.2</b>	<b>75.8</b>	<b>80.4</b>	<b>87.4</b>	<b>94.9</b>	<b>103.9</b>	<b>112.4</b>	<b>118.9</b>	<b>127.6</b>
Chemicals <sup>1</sup> .....	42.8	51.1	56.3	60.9	66.5	67.6	72.8	78.6	87.4	96.7	104.4	109.6	119.8
Machinery.....	40.7	52.4	57.5	58.9	62.8	68.6	72.6	78.9	89.9	93.9	102.9	110.9	126.8
Electrical equipment <sup>2</sup> .....	43.9	68.4	60.7	62.7	68.6	69.9	76.8	87.2	91.1	85.3	105.8	123.2	127.3
Motor vehicles <sup>3</sup> .....	59.3	87.7	86.6	88.4	100.4	108.6	113.0	121.2	134.3	146.6	162.9	173.8	198.0
Aircraft and missiles.....	61.3	70.8	76.4	85.1	91.3	91.3	89.4	93.3	101.6	128.4	146.4	144.3	156.9
Other industries.....	42.4	49.8	54.5	56.7	61.1	65.9	72.8	79.6	86.6	91.3	93.4	96.5	99.6

<sup>1</sup> Includes allied products. <sup>2</sup> Includes communication. <sup>3</sup> And other transportation equipment. <sup>4</sup> Represents the arithmetic mean of the numbers of R&D scientists and engineers reported in each industry for January in two consecutive years divided by total R&D expenditures in each industry.

Source: U.S. National Science Foundation, *Research and Development in Industry*, annual.

**NO. 989. CIVILIAN EMPLOYMENT OF SCIENTISTS, ENGINEERS, AND TECHNICIANS IN PRIVATE INDUSTRY,  
BY OCCUPATION AND MAJOR INDUSTRIAL SECTOR: 1982**

[In thousands. Covers wage and salary workers]

OCCUPATION	Total	Mining <sup>1</sup>	Construction	Manufacturing	Transportation	Communications	Public utilities	Trade	Finance, insurance, real estate	Services
<b>Scientists and engineers.....</b>	<b>1,560.4</b>	<b>71.9</b>	<b>48.6</b>	<b>749.4</b>	<b>12.0</b>	<b>45.6</b>	<b>39.7</b>	<b>76.1</b>	<b>55.8</b>	<b>461.3</b>
Scientists.....	544.7	35.4	1.5	161.3	4.3	4.5	7.2	30.8	50.3	248.6
Physical scientists.....	166.3	28.1	.2	89.9	.4	(2)	1.0	2.7	.4	43.6
Life scientists.....	35.4	(2)	.2	10.0	(2)	(2)	(2)	1.0	(2)	24.2
Mathematical scientists.....	16.1	.8	(2)	8.2	(2)	(2)	(2)	.3	.8	6.0
Social scientists.....	61.6	1.3	.2	2.2	(2)	.2	2.4	4.4	17.8	36.4
Psychologists.....	54.8	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	54.8
Systems analysts, EDP.....	210.5	5.2	.9	51.0	3.2	4.3	3.8	26.2	31.3	84.6
Engineers <sup>2</sup> .....	1,015.7	36.5	47.1	588.1	7.7	41.1	32.5	45.5	5.5	211.7
Civil engineers.....	87.0	1.2	16.0	8.9	1.7	.9	2.5	1.8	.7	53.3
Electrical/electronics engineers.....	285.2	3.7	6.0	162.7	1.0	29.4	16.0	11.9	.3	55.2
Mechanical engineers.....	192.1	1.9	9.4	118.8	2.2	1.9	5.6	9.6	.4	52.3
<b>Technicians, except health<sup>3</sup>.....</b>	<b>1,303.6</b>	<b>33.5</b>	<b>39.3</b>	<b>501.3</b>	<b>63.2</b>	<b>52.4</b>	<b>41.5</b>	<b>112.8</b>	<b>14.3</b>	<b>445.3</b>
Drafters.....	285.0	7.2	18.8	112.2	.7	5.7	13.1	5.6	2.1	119.6
Electrical/electronic technicians.....	353.3	2.7	10.1	137.7	3.9	36.7	11.7	91.9	(2)	58.6
Surveyors.....	29.2	2.6	3.5	1.1	.6	.5	1.4	(2)	.2	19.1
Computer programmers.....	241.7	3.4	1.4	73.1	3.3	4.5	3.7	18.9	39.9	93.5

Z Fewer than 50. <sup>1</sup> Includes oil and gas extraction. <sup>2</sup> Includes engineers and technicians not shown separately.  
Source: U.S. Bureau of Labor Statistics, unpublished data.

**NO. 990. SCIENTISTS AND ENGINEERS—EMPLOYMENT IN INSTITUTIONS OF HIGHER EDUCATION, BY  
FIELD: 1980 TO 1985**

[In thousands. As of January. Includes full-time and part-time personnel. Excludes graduate students who receive stipends for part-time services as scientists or engineers. R and D=research and development]

FIELD	1980	1983	1984	1985	FIELD	1980	1983	1984	1985
<b>Total.....</b>	<b>339.3</b>	<b>373.9</b>	<b>385.6</b>	<b>396.0</b>	<b>Math. and computer scientists.....</b>	<b>36.0</b>	<b>45.7</b>	<b>48.9</b>	<b>51.1</b>
Universities, colleges.....	324.2	358.9	370.4	380.4	Life scientists <sup>1</sup> .....	133.7	151.4	156.4	161.7
Engineers <sup>1</sup> .....	33.7	37.7	38.7	39.9	Agricultural.....	15.9	16.7	17.1	17.5
Civil.....	5.5	6.4	6.4	6.7	Biological.....	44.8	48.1	49.3	50.5
Electrical.....	8.2	9.6	10.2	10.8	Medical.....	87.1	74.4	76.1	78.7
Mechanical.....	6.1	6.7	7.1	7.2	Psychologists.....	23.3	23.8	23.8	23.8
Physical and environmental science <sup>1</sup> .....	43.5	44.9	46.4	47.2	Social scientists <sup>1</sup> .....	54.1	55.4	56.2	56.7
Chemists.....	17.6	18.3	18.8	19.1	Economists.....	14.7	15.6	15.7	15.8
Earth scientists.....	6.6	6.5	6.7	6.7	Federally funded R & D centers.....	15.1	15.1	15.2	15.6
Physicists.....	13.0	13.6	13.9	14.1	Engineers.....	6.5	6.5	6.0	6.2
					Scientists.....	8.6	8.6	9.2	9.4

<sup>1</sup> Includes other breakdown not shown separately.

Source: U.S. National Science Foundation, *Survey of Scientific and Engineering Personnel Employed in Universities and Colleges*, periodic.

**NO. 991. PROFESSIONAL SCIENTIFIC, ENGINEERING, AND TECHNICAL PERSONNEL IN THE FEDERAL  
GOVERNMENT, BY OCCUPATIONAL GROUP: 1970 TO 1985**

[In thousands, except percent. As of October. Excludes health professional personnel]

OCCUPATIONAL GROUP	1970	1975	1980	1981 <sup>1</sup>	1983 <sup>1 2</sup>	1985 <sup>2 3</sup>	PERCENT FEMALE					
							1970	1975	1980	1981 <sup>1</sup>	1983 <sup>1 2</sup>	1985 <sup>2 3</sup>
<b>Total.....</b>	<b>180.3</b>	<b>188.9</b>	<b>206.9</b>	<b>207.9</b>	<b>216.9</b>	<b>238.0</b>	<b>6.7</b>	<b>6.5</b>	<b>9.5</b>	<b>10.3</b>	<b>11.8</b>	<b>13.8</b>
Scientific personnel.....	77.2	77.3	88.0	88.9	89.5	91.4	8.0	8.8	12.7	13.2	14.1	15.6
Physical sciences.....	29.8	27.1	27.6	27.4	27.1	27.6	6.4	6.6	9.5	10.0	10.9	12.5
Mathematics and statistics.....	8.6	10.0	11.1	10.9	10.7	11.0	17.4	15.9	19.8	19.9	20.9	22.6
Life sciences.....	26.9	26.4	30.5	32.4	33.5	33.5	4.1	5.1	8.7	8.8	11.3	12.1
Social sciences <sup>4</sup> .....	6.6	8.0	10.5	8.9	9.3	10.1	16.2	17.6	23.3	23.1	22.8	25.1
Economics.....	4.3	5.0	5.9	5.5	5.3	5.9	11.1	12.9	17.4	18.1	18.4	20.6
Other social sciences.....	2.3	3.0	4.6	3.4	4.0	4.2	25.1	23.7	30.8	31.2	28.7	31.5
Geography and cartography.....	3.3	2.9	4.9	5.2	5.5	5.7	8.5	7.9	14.8	15.7	16.6	17.0
Psychology.....	2.2	2.9	3.3	3.4	3.3	3.4	13.7	14.6	16.8	17.5	18.8	21.4
Engineering personnel.....	83.0	86.6	89.6	87.9	94.3	105.1	.5	.7	1.9	2.3	3.6	5.3
Computer specialists.....	20.1	25.0	29.3	31.1	35.2	41.5	21.1	19.1	23.3	24.7	27.9	31.4

<sup>1</sup> Excludes Tennessee Valley Authority (TVA).

<sup>2</sup> Excludes Post Office.

<sup>3</sup> Data for 1985 include 4,400 personnel at TVA.

<sup>4</sup> Includes community planning.

Source: U.S. National Science Foundation. Compiled from data supplied by the U.S. Office of Personnel Management.

**NO. 992. GRADUATE SCIENCE AND ENGINEERING STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS, BY FIELD, ENROLLMENT STATUS, AND LEVEL OF STUDY: 1975 TO 1984**

[in thousands. As of fall. Includes outlying areas]

FIELD OF SCIENCE	STUDENTS ENROLLED FULL-TIME									STUDENTS ENROLLED PART-TIME		
	Total			First year			Beyond first year					
	1975	1980	1984	1975	1980	1984	1975	1980	1984	1975	1980	1984
<b>Total</b>	<b>210.3</b>	<b>230.5</b>	<b>246.8</b>	<b>79.2</b>	<b>77.3</b>	<b>77.5</b>	<b>131.2</b>	<b>153.2</b>	<b>169.3</b>	<b>83.4</b>	<b>103.1</b>	<b>116.6</b>
Engineering	37.1	41.9	54.8	16.4	15.7	18.9	20.6	26.2	35.9	27.5	28.2	33.5
Physical sciences	21.3	22.3	25.1	6.0	5.7	6.2	15.3	16.5	18.9	3.3	3.1	3.3
Environmental sciences	9.0	10.3	11.3	3.3	3.4	3.1	5.7	6.9	8.1	2.0	2.5	3.0
Mathematics	10.0	9.4	10.6	3.6	3.2	3.5	6.4	6.1	7.1	4.4	4.3	4.5
Computer sciences	4.1	5.9	10.1	1.8	2.3	3.6	2.3	3.6	6.5	2.9	5.5	10.3
Life sciences	59.6	67.7	66.2	23.3	23.0	20.7	36.3	44.7	45.5	14.0	22.9	26.4
Psychology	19.7	21.6	21.6	5.7	5.7	5.5	14.0	15.9	16.2	7.2	7.8	8.7
Social sciences	49.5	51.5	47.1	19.0	18.3	16.0	30.5	33.2	31.1	22.3	28.8	27.0
Economics	8.0	8.9	8.6	3.1	2.9	2.6	4.9	6.1	6.0	3.0	3.3	3.4

Source: U.S. National Science Foundation, *Survey of Graduate Science and Engineering Students and Postdoctorates*, annual.

**NO. 993. DOCTORATES CONFERRED, BY RECIPIENTS' CHARACTERISTICS, 1975 TO 1985, AND BY SELECTED SCIENCE AND ENGINEERING FIELDS, 1985**

CHARACTERISTIC	ALL FIELDS				1985							
	1975	1980	1984	All fields <sup>1</sup>	Engi- neer- ing	Physi- cal sci- ences <sup>2</sup>	Math- ematics and com- puter sci- ences	Psy- chology	Biologi- cal sci- ences <sup>3</sup>	Social sciences <sup>4</sup>		
										Total	Eco- nomics	Other social sciences <sup>5</sup>
Doctorate conferred .....	32,951	31,017	31,277	31,201	3,165	3,531	1,000	3,075	3,766	2,111	812	1,299
Percent with master's degree .....	81.3	80.9	80.4	80.0	86.7	52.4	76.4	81.5	50.6	83.2	75.9	87.8
Percent distribution .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Male .....	78.1	69.7	65.9	65.7	83.7	83.7	86.1	50.6	67.4	68.6	84.7	58.5
Female .....	21.9	30.3	34.1	34.3	6.3	16.3	13.9	49.4	32.6	31.4	15.3	41.5
White <sup>6</sup> .....	86.7	84.6	86.6	86.2	74.5	87.9	83.5	90.4	89.4	83.1	84.3	83.1
Black and other <sup>6</sup> .....	8.5	10.5	10.9	11.5	21.2	9.1	12.4	8.0	8.5	12.8	11.7	12.8
Not reported <sup>6</sup> .....	4.8	4.9	2.5	2.3	4.3	3.0	4.1	1.6	2.1	4.1	4.0	4.1
U.S. citizens .....	82.1	81.0	76.7	74.5	40.4	70.3	56.5	90.1	83.0	67.8	53.9	76.4
Foreign citizens .....	15.9	15.9	19.3	20.9	54.6	25.5	39.4	4.6	14.1	26.9	41.8	17.7
Citizenship unknown .....	2.0	3.1	3.9	4.6	5.0	4.1	4.1	5.3	2.9	5.3	4.3	5.9
Median age at award <sup>7</sup> (yr.) .....	31.5	32.2	33.0	33.3	30.9	29.5	30.6	32.5	30.5	33.4	31.6	34.6
Median total time, <sup>7</sup> baccalaure- ate to doctorate (yr.) .....	8.6	9.3	10.0	10.2	8.1	7.1	8.2	9.4	7.9	10.2	8.8	11.0
Registered time (yr.) .....	5.9	6.3	6.7	6.8	5.8	6.0	6.3	6.9	6.4	7.5	6.5	8.1

<sup>1</sup> Includes other fields, not shown separately. <sup>2</sup> Astronomy, physics, chemistry, and earth sciences. <sup>3</sup> Biochemistry, botany, microbiology, physiology, zoology, and related fields. <sup>4</sup> Data not strictly comparable to those shown in table 994; see source for details. <sup>5</sup> Anthropology, sociology, political science, public administration, and international relations. <sup>6</sup> Data on race limited to U.S. citizens and non-U.S. citizens with permanent visas. <sup>7</sup> For definition of median, see Guide to Tabular Presentation.

Source: U.S. National Science Foundation. Data from National Research Council, *Doctorate Record File*.

**NO. 994. SCIENCE AND ENGINEERING DOCTORATES CONFERRED: 1970 TO 1985**

[For year ending June 30. See also *Historical Statistics, Colonial Times to 1970*, series H 767-771, 774, and 776-780]

FIELD OF SCIENCE	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
<b>Science and engineering doctorates conferred</b>	<b>17,743</b>	<b>18,358</b>	<b>17,048</b>	<b>17,245</b>	<b>17,199</b>	<b>17,623</b>	<b>17,626</b>	<b>17,931</b>	<b>18,074</b>	<b>18,255</b>
Life sciences	4,165	4,402	4,369	4,501	4,710	4,788	4,841	4,751	4,869	4,877
Biological sciences	3,361	3,497	3,516	3,646	3,798	3,804	3,890	3,734	3,872	3,766
Agricultural sciences <sup>1</sup>	804	905	853	855	912	982	951	1,015	997	1,111
Physical sciences	4,403	3,710	3,234	3,320	3,149	3,210	3,351	3,439	3,459	3,531
Chemistry	2,238	1,776	1,544	1,566	1,538	1,612	1,680	1,759	1,765	1,836
Physics and astronomy	1,655	1,300	1,087	1,108	983	1,015	1,014	1,043	1,080	1,078
Earth, atmospheric and marine sciences	510	634	623	646	628	583	657	637	614	617
Psychology	1,890	2,751	3,055	3,091	3,098	3,358	3,158	3,309	3,232	3,075
Social sciences	2,626	3,346	3,008	2,864	2,796	2,791	2,690	2,666	2,608	2,607
Economics	826	888	778	780	745	808	737	792	768	785
Other social sciences	1,800	2,476	2,230	2,082	2,050	1,983	1,953	1,874	1,840	1,822
Engineering	3,434	3,002	2,423	2,490	2,479	2,528	2,646	2,781	2,913	3,165
Mathematics	1,225	1,147	838	769	744	728	720	701	698	699
Computer sciences	(NA)	(NA)	121	210	218	232	220	286	295	311

NA Not available. <sup>1</sup> Excludes agricultural economics, included in social sciences.

Source: U.S. National Science Foundation. Data from National Research Council, *Doctorate Record File*.

## NO. 995. DOCTORAL SCIENTISTS AND ENGINEERS—SELECTED CHARACTERISTICS: 1975 TO 1985

[In thousands]

CHARACTERISTIC	1975	1981	1983	1985		CHARACTERISTIC	1975	1981	1983	1985	
				Number	Em- ployed					Number	Em- ployed
<b>Total</b> .....	<b>270.5</b>	<b>363.9</b>	<b>395.0</b>	<b>424.6</b>	<b>400.4</b>	<b>Race:</b>					
<b>Field:</b>						White.....	242.4	322.9	352.3	377.9	355.1
Life scientists.....	70.3	93.8	101.4	109.9	101.8	Black.....	2.6	4.6	5.3	5.9	5.7
Physical scientists.....	58.4	67.7	69.6	73.1	87.5	Asian.....	13.1	27.9	30.9	35.5	34.5
Psychologists.....	31.4	45.4	49.7	54.9	52.2	Other and not reported.....	12.4	8.5	6.6	5.2	5.0
Social scientists.....	38.6	59.2	63.7	68.5	64.0	<b>Employment status:</b>					
Economists.....	12.6	17.1	18.1	19.1	17.9	Full-time employed.....	240.6	322.3	341.9	371.9	371.9
Other social scientists.....	26.0	42.2	45.6	49.4	46.1	Part-time employed.....	7.3	10.7	16.5	16.7	16.7
Engineers.....	43.4	58.3	63.8	67.9	85.9	Postdoctorates.....	8.2	10.5	10.9	11.8	11.8
Mathematical scientists.....	14.2	16.5	17.4	17.5	16.8	Unemployed/seeking.....	2.5	2.8	3.7	3.4	(x)
Computer specialists.....	3.5	9.1	12.3	15.0	15.0	Not employed/not seeking.....	2.4	3.4	3.7	3.9	(x)
Environmental scientists.....	12.5	16.6	17.1	18.0	17.3	Retired/not employed.....	8.7	12.5	13.8	16.2	(x)
<b>Sex:</b>						Other.....	4.4	4.8	8	8	(x)
Men.....	244.9	318.1	340.5	380.6	341.9	Not reported.....	.5	1.4	3.7	(x)	(x)
Women.....	25.6	45.7	54.6	64.0	58.5						

X Not applicable.

Source: U.S. National Science Foundation, *Characteristics of Doctoral Scientists and Engineers in the United States*, biennial series.

## NO. 996. DOCTORAL SCIENTISTS AND ENGINEERS, BY SELECTED STATES: 1985

[In thousands. Selected States represent those with more than 4,000 scientists and engineers]

STATE	Total	Natural scien- tists	Social scien- tists	Engi- neers	STATE	Total	Natural scien- tists	Social scien- tists	Engi- neers
<b>Total</b> .....	<b>424.6</b>	<b>233.4</b>	<b>123.3</b>	<b>67.9</b>	Minnesota.....	6.8	4.2	2.0	.6
Alabama.....	4.2	2.4	1.1	.8	Missouri.....	7.1	4.1	2.0	1.0
Arizona.....	4.6	2.2	1.7	.7	New Jersey.....	17.9	10.1	3.4	4.4
California.....	55.2	28.0	15.6	11.6	New Mexico.....	5.3	3.3	.7	1.3
Colorado.....	8.6	4.8	2.2	1.7	New York.....	39.3	20.4	13.8	5.0
Connecticut.....	7.5	4.4	2.3	.8	North Carolina.....	9.5	6.0	2.6	.9
Delaware.....	4.1	2.9	.3	1.0	Ohio.....	16.0	8.5	4.5	3.0
District of Columbia.....	12.4	5.4	6.0	1.1	Oklahoma.....	4.5	2.3	1.3	.8
Florida.....	9.7	4.9	3.5	1.3	Oregon.....	4.6	2.8	1.5	.3
Georgia.....	6.4	4.0	1.9	.6	Pennsylvania.....	20.3	11.0	6.0	3.3
Illinois.....	18.0	9.5	5.7	2.7	Tennessee.....	6.9	3.8	2.0	1.0
Indiana.....	7.6	4.1	2.5	1.0	Texas.....	22.8	13.7	4.8	4.2
Iowa.....	5.3	2.8	1.4	.9	Virginia.....	12.1	6.1	3.5	2.4
Kansas.....	15.4	10.2	3.4	1.8	Washington.....	8.6	4.6	2.4	1.6
Massachusetts.....	18.7	10.0	5.7	3.1	Wisconsin.....	7.4	4.2	2.4	.8
Michigan.....	12.6	7.2	3.4	2.0	Others.....	45.0	25.4	13.7	5.9

Source: U.S. National Science Foundation, *Characteristics of Doctoral Scientists and Engineers in the United States: 1985*.

## NO. 997. FEDERAL SPACE PROGRAM—BUDGET AUTHORITY, BY AGENCY: 1960 TO 1984

[In millions of dollars, except percent. For fiscal years ending in year shown; see text, section 10. 1984 estimated. NASA=National Aeronautics and Space Administration]

YEAR	Total <sup>1</sup>	NASA <sup>2</sup>		Dept. of De- fense	Dept. of Com- merce	Dept. of En- ergy <sup>3</sup>	YEAR	Total <sup>1</sup>	NASA <sup>2</sup>		Dept. of De- fense	Dept. of Com- merce	Dept. of En- ergy <sup>3</sup>
		Total	Per- cent of total						Total	Per- cent of total			
1960.....	1,066	462	49.2	561	(x)	43	1975.....	4,914	2,915	65.7	1,892	64	30
1965.....	6,958	5,138	75.5	1,574	12	229	1976.....	5,320	3,225	66.7	1,983	72	23
1966.....	6,970	5,065	74.2	1,889	27	187	1977.....	5,983	3,440	63.8	2,412	91	22
1967.....	6,710	4,630	70.4	1,664	29	184	1978.....	6,509	3,623	62.4	2,729	103	34
1968.....	6,529	4,430	70.3	1,922	28	145	1979.....	7,419	4,030	61.9	3,211	98	59
1969.....	5,976	3,822	66.8	2,013	20	118	1980.....	8,689	4,680	60.3	3,848	93	40
1970.....	5,341	3,547	70.1	1,678	8	103	1981.....	9,978	4,992	55.3	4,828	87	41
1971.....	4,741	3,101	69.8	1,512	27	95	1982.....	12,091	5,494	45.4	6,362	144	61
1972.....	4,575	3,071	72.3	1,407	31	55	1983.....	15,564	6,328	40.7	9,019	178	39
1973.....	4,825	3,093	70.6	1,623	40	54	1984.....	17,449	6,590	37.8	10,590	235	34
1974.....	4,640	2,759	65.5	1,766	60	42							

X Not applicable.

<sup>1</sup> Includes agencies not shown separately. <sup>2</sup> Includes budget authority for the space transportation system of \$3.1 billion in 1982; \$4.1 billion in 1983; and \$4.0 billion in 1984. <sup>3</sup> See footnote 1, table 978.Source: U.S. National Aeronautics and Space Administration, *Aeronautics and Space Report of the President*, annual. Data from U.S. Office of Management and Budget.

**NO. 998. NASA—OUTLAYS FOR OPERATIONAL ACTIVITIES AND FOR RESEARCH AND DEVELOPMENT:  
1965 TO 1985**

(In millions of dollars, except percent. For fiscal year ending in year shown; see text, section 10. Minus sign (–) indicates decrease)

YEAR	AGENCY TOTAL		PERFORMANCE (OPERATIONS)			PERFORMANCE (R&D)				FACILITIES (R&D)			
	Total outlays	Percent change	Total operations	Space flight	Other	Total	Space flight	Space science, applications <sup>1</sup>	Air transport and other	Total R&D	Space flight	Space science, applications <sup>1</sup>	Air transport and other
1965.....	5,093	<sup>a</sup> 22.1	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	<sup>a</sup> 4,562	<sup>a</sup> 3,138	<sup>a</sup> 1,126	<sup>a</sup> 298	531	401	78	52
1970.....	3,753	–11.7	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	<sup>a</sup> 3,699	<sup>a</sup> 2,195	<sup>a</sup> 963	<sup>a</sup> 541	54	14	21	19
1975.....	3,266	.3	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	<sup>a</sup> 3,181	<sup>a</sup> 1,500	<sup>a</sup> 1,076	<sup>a</sup> 606	85	35	9	42
1980.....	4,850	15.8	1,245	914	331	3,465	1,642	1,341	482	140	38	5	97
1982.....	6,035	11.3	2,706	2,303	403	3,220	1,255	1,442	543	109	17	3	89
1983.....	6,664	10.4	4,018	3,431	587	2,538	596	1,486	456	108	26	–	82
1984.....	7,048	5.8	3,317	2,854	463	3,539	1,183	1,667	689	192	44	20	128
1985, est.....	7,321	3.9	3,813	3,093	720	3,260	800	1,868	592	248	75	22	151

– Represents zero. <sup>1</sup> Includes technology. <sup>2</sup> Change from 1964. <sup>3</sup> Performance (operations) included in performance (R&D).

Source: U.S. Office of Management and Budget, *The Budget of the United States Government*, annual.

**NO. 999. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION—BUDGET SUMMARY: 1984 TO 1986**

(In millions of dollars)

ITEM	1984	1985	1986	ITEM	1984	1985	1986
Budget summary, total.....	7,248	7,552	7,656	Commercial programs.....	9	10	28
Research and development.....	2,064	2,468	2,757	Space transportation capability development.....	432	391	437
Space Science and applications.....	1,157	1,405	1,549	Upper stages.....	143	137	122
Physics and astronomy.....	568	677	607	Engineering and technical base.....	93	106	110
Hubble space telescope develop.....	196	195	128	Payload operations and support equipment.....	60	56	84
Gamma ray observatory develop.....	86	117	87	Spacelab.....	111	56	93
Shuttle/spacelab payload develop. op. and mission management.....	81	105	108	Advanced programs.....	22	21	21
Mission operations and data analysis.....	68	109	118	Tethered satellite system.....	3	16	18
Suborbital program.....	52	59	64	Aeronautics and space technology.....	452	492	522
Explorer development.....	49	52	51	Aeronautical research and technology.....	315	342	354
Research and analysis.....	36	40	52	Research and technology base.....	228	223	240
Life sciences.....	58	62	70	Systems technology programs <sup>1</sup> .....	87	119	114
Planetary exploration <sup>1</sup> .....	217	291	353	Rotorcraft systems technology.....	28	26	21
Magellan.....	29	93	109	Numerical aerodynamic simulation.....	17	27	28
Research and analysis.....	60	62	63	Advanced propulsion systems technology.....	17	26	44
Galileo development.....	79	59	54	High-performance aircraft.....	20	22	21
Mission operations and data analysis.....	43	56	83	Space research and technology.....	137	150	168
Ulysses.....	6	9	6	Space station.....	22	156	205
Space applications.....	314	374	519	Tracking and data advanced systems.....	14	15	16
Environmental observations <sup>1</sup> .....	162	213	290	Space flight, control and data communication programs.....	3,772	3,594	3,398
Upper atmosphere research satellite mission.....	20	56	124	Space shuttle production and operational capability.....	1,646	1,485	972
Upper atmosphere research and analysis.....	28	31	33	Orbiter.....	725	674	334
Extended mission operations.....	27	30	37	Propulsion systems.....	638	592	454
Atmospheric dynamics and radiation research and analysis.....	27	29	30	Launch and mission support.....	278	218	169
Oceanic processes research and analysis.....	18	19	21	Space transportation operations.....	1,452	1,314	1,725
Space physics research and analysis.....	17	17	18	Flight hardware.....	730	723	958
Earth radiation budget experience.....	16	8	2	Flight operations.....	343	316	435
Shuttle/spacelab payload development.....	8	8	6	Launch and landing operations.....	329	276	332
Communications.....	41	61	100	Space and ground network, communications and data systems.....	674	796	701
Solid earth observations <sup>1</sup> .....	76	58	75	Space network.....	259	378	286
Geodynamics.....	28	22	23	Ground network.....	249	293	223
Research and analysis.....	15	16	20	Communications and data systems.....	166	184	192
Shuttle/spacelab payloads.....	17	12	23	Research and program management.....	1,256	1,332	1,362
Materials processing in space.....	26	27	35	Construction of facilities.....	156	158	139
Information systems.....	9	16	19				

<sup>1</sup> Includes other items not shown separately.

Source: National Aeronautics and Space Administration, *NASA News*.

## No. 1000. NASA—PERMANENT PERSONNEL DISTRIBUTION SUMMARY: 1975 TO 1985

CODE AND INSTALLATION	1975	1980	1981	1982	1983	1984	1985		
							Total	Per-cent male	Per-cent Black <sup>1</sup>
<b>Total</b> .....	<b>24,333</b>	<b>22,613</b>	<b>21,844</b>	<b>21,186</b>	<b>21,924</b>	<b>21,415</b>	<b>21,423</b>	<b>75.0</b>	<b>7.9</b>
Professional.....	15,169	14,749	14,418	14,208	14,664	14,410	14,819	83.7	5.2
Scientists and engineers assistants.....	11,438	10,779	10,524	10,395	10,779	10,605	10,884	91.4	3.5
Administrators.....	3,504	3,539	3,495	3,462	3,569	3,526	3,675	60.7	10.2
Scientists and engineers nonassistants.....	180	377	348	302	264	226	209	91.9	5.3
Life sciences.....	47	54	51	49	52	53	51	68.6	3.9
Non-professional.....	9,164	7,864	7,426	6,978	7,260	7,005	6,604	55.6	14.0
INSTALLATION									
Headquarters.....	1,562	1,516	1,504	1,431	1,505	1,408	1,383	57.7	21.1
Ames Research Center, CA (FRC, CA).....	2,161	2,116	2,052	2,041	2,093	2,093	2,052	78.1	4.1
Lewis Research Center, Cleveland, OH.....	3,042	2,822	2,690	2,485	2,676	2,650	2,715	81.5	6.1
Langley Research Center, Hampton, VA.....	3,915	2,966	2,895	2,801	2,968	2,873	2,827	79.5	9.3
Goddard Space Flight Center, MD (WFC, VA).....	4,165	3,818	3,895	3,621	3,718	3,581	3,629	74.8	8.8
Marshall Space Flight Center, AL.....	4,100	3,563	3,385	3,332	3,412	3,264	3,284	75.2	6.6
National Space Technology Labs, MS.....	69	103	105	103	111	112	122	65.6	7.4
Johnson, Houston, TX.....	3,660	3,508	3,380	3,268	3,305	3,316	3,330	72.7	7.0
Kennedy, FL.....	2,259	2,201	2,138	2,104	2,146	2,118	2,081	73.3	5.2

<sup>1</sup> Excludes Hispanic Blacks.Source: U.S. National Aeronautics and Space Administration, *Personnel Management Information System (PMIS)*, annual.

## No. 1001. SPACE VEHICLE SYSTEMS—NET SALES AND BACKLOG ORDERS: 1965 TO 1984

(In millions of dollars. Backlog orders as of Dec. 31. Based on data from major companies engaged in manufacture of aerospace products. Excludes engines and propulsion units)

YEAR	NET SALES			BACKLOG ORDERS			YEAR	NET SALES			BACKLOG ORDERS		
	Total	Military	Non-military	Total	Military	Non-military		Total	Military	Non-military	Total	Military	Non-military
1965.....	2,449	602	1,847	2,203	503	1,700	1981.....	3,856	1,736	2,120	3,174	2,164	1,010
1970.....	1,956	1,025	931	1,184	786	398	1982.....	4,749	2,606	2,143	4,337	2,403	1,934
1975.....	2,119	1,096	1,023	1,304	1,019	285	1983.....	4,940	2,420	2,520	4,865	2,733	2,132
1980.....	3,483	1,461	2,022	1,814	951	863	1984.....	5,256	3,019	2,237	4,666	3,099	1,567

Source: U.S. Bureau of the Census, *Current Industrial Reports*, MA-37D, *Aerospace Industry (Sales and Orders)*.

## No. 1002. SPACE SHUTTLE SYSTEM EXPENDITURES—ACTUAL, 1972 TO 1984, AND PROJECTED, 1985 TO 1990

(In millions of dollars. For year ending Sept. 30. These data cannot be used alone to estimate the total shuttle cost. Only operating expenditures correspond to an annual cost in the economic sense, and even those estimates require adjustment for the three-year period over which the cost of a shuttle flight is incurred and reimbursements are received. For details, see source)

YEAR	Total	D.D.T. and E <sup>1</sup>	Construction	Production	Operations	YEAR	Total	D.D.T. and E <sup>1</sup>	Construction	Production	Operations
1972.....	40	-	40	-	-	1982.....	2,932	894	20	1,283	735
1973.....	58	-	58	-	-	1983.....	3,014	-	26	1,635	1,354
1974.....	325	216	109	-	-	1984.....	3,127	-	73	690	2,364
1975.....	1,543	1,407	136	-	-	Projections:					
1976.....	2,619	2,541	79	-	-	1985.....	2,529	-	38	557	1,934
1977.....	2,258	2,089	60	109	-	1986.....	2,300	-	39	325	1,936
1978.....	2,062	1,898	103	61	-	1987.....	2,153	-	41	175	1,937
1979.....	2,251	1,713	42	496	-	1988.....	2,038	-	42	65	1,931
1980.....	2,751	1,339	42	807	463	1989.....	1,999	-	44	25	1,930
1981.....	2,724	1,041	19	1,093	576	1990.....	1,999	-	45	25	1,929

- Represents zero. <sup>1</sup> Design, development, testing, and evaluation.Source: U.S. Congress, Congressional Budget Office, *Pricing Options for the Space Shuttle*, March 1985.

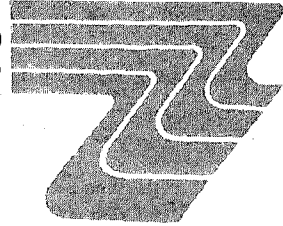
## No. 1003. WORLD-WIDE SUCCESSFUL SPACE LAUNCHES: 1957 TO 1985

(Criterion of success is attainment of Earth orbit or Earth escape. E.S.A. = European Space Agency)

YEAR	Total <sup>1</sup>	Soviet Union	United States	Japan	E.S.A.	India	Mainland China	YEAR	Total <sup>1</sup>	Soviet Union	United States	Japan	E.S.A.	India	Mainland China
<b>Total</b> .....	<b>2,642</b>	<b>1,733</b>	<b>844</b>	<b>27</b>	<b>9</b>	<b>3</b>	<b>14</b>	1975-1979..	607	461	126	10	1	-	6
1950-1959.....	21	6	15	-	-	-	-	1980.....	105	89	13	2	1	-	1
1960-1964.....	268	76	192	-	-	-	-	1981.....	123	98	18	1	2	-	1
1965-1969.....	586	302	279	-	-	-	-	1982.....	121	101	18	1	-	-	1
1970-1974.....	555	405	139	5	-	-	2	1983.....	127	98	22	3	2	-	1
								1984.....	129	97	22	3	4	-	3
								1985.....	121	98	17	2	3	-	1

- Represents zero. <sup>1</sup> Includes launches in other countries not shown separately.

Source: Library of Congress, Congressional Research Service, Science Policy Research Division, unpublished data.



# Transportation— Land

This section presents statistics on revenues, passenger and freight traffic volume, and employment in various revenue-producing modes of the transportation industry, including motor vehicles, trains, and pipelines. Data are also presented on commuting travel; highway mileage and finances; motor vehicle travel, accidents, sales, and registrations; automobile operating costs; and characteristics of public transit, railroads, and pipelines.

The principal compiler of data on public roads and on operation of motor vehicles is the U.S. Department of Transportation's (DOT) Federal Highway Administration (FHWA). These data appear in FHWA's annual *Highway Statistics*. The U.S. Interstate Commerce Commission (ICC) presents data on interstate land transport in its publications, the *Annual Report to Congress* and the *Transport Statistics in the United States*, which contain data on railroads and motor carriers subject to ICC regulations.

The U.S. National Highway Traffic Safety Administration issues data on traffic accident deaths and death rates in two annual reports: the *Fact Book* and the *Fatal Accident Reporting System Annual Report*. DOT's Federal Railroad Administration presents data on accidents involving railroads in its annual *Accident/Incident Bulletin*, and the *Rail-Highway Crossing Accident/Incident and Inventory Bulletin*.

Various censuses and surveys conducted by the U.S. Bureau of the Census also provide data. Results of the censuses of transportation are presented in the *Truck Inventory and Use Survey*. The *Annual Survey of Manufactures* and reports of the censuses of manufactures, wholesale and retail trade, and service industries contain statistics on the motor vehicle and equipment industry and on retail, wholesale, and services aspects of this industry. Data on persons commuting to work were collected as part of the 1980 census and are in various census reports.

Data are also presented in many nongovernment publications. Among them are: The weekly and annual *Cars of Revenue Freight Loaded* and the annual *Yearbook of Railroad Facts*, both published by the Association of American Railroads, Washington, DC; *Bus Facts*, issued annually by the American Bus Association, Washington, DC; and the *Transit Fact Book*, containing electric railway and motorbus statistics, published annually by the American Public Transit Association, Washington, DC. Useful annual handbooks in the field of transportation are *Motor Vehicle Facts and Figures* and *World Motor Vehicle Data*, issued by the Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI; *Accident Facts*, issued by the National Safety Council, Chicago, IL; and *Transportation in America*, issued by the Transportation Policy Associates, Washington, DC.

**Urban and rural highway mileage.**—Beginning 1980, mileage is classified in urban and rural categories, rather than municipal and rural. Urban denotes the Federal-aid legislation definition of an area. Such areas include, as a minimum, a census place with a population of 5,000 to 49,999 or a designated urbanized area with a population of 50,000 or more. These Federal-aid urban areas may extend beyond corporate and census boundaries, and thus are not necessarily coextensive with municipal boundaries. Rural in 1980 refers to non-Federal-aid urban area mileage. Prior to 1980, municipal referred to roads within incorporated places, densely populated New England towns, and certain of the more populous unincorporated areas and rural to non-municipal roads.

**Federal-aid highway systems.**—Federal law provides that Federal funds be matched in varying proportions with State funds for the costs of planning, engineering, right-of-way acquisition, and construction of highways. Other costs, such as maintenance and policing, are borne entirely by the States and local agencies.

Effective July 1, 1976, a uniform road classification system was implemented which shortened the mileage of the highway system and redefined the three main systems of Federal-aid routes. The Federal-aid primary system is comprised of a network of main roads important to interstate, statewide, and regional travel. The system consists of main rural roads and their extensions into or through urban areas. The Federal-aid secondary system consists of rural roads of a more local nature, such as those which connect county seats and the larger population centers not served by the primary system. The Federal-aid urban system is located in urban places of 5,000 or more persons and consists of major urban roads and streets, except those on the primary system.

**Regulatory bodies.**—The ICC, created by the U.S. Congress to regulate transportation in interstate commerce, has jurisdiction over railroads, trucking companies, bus lines, freight forwarders, water carriers, coal slurry pipelines, and transportation brokers. The Federal Energy Regulatory Commission is responsible for setting rates and charges for transportation and sale of natural gas and for establishing rates or charges for transportation.

**Motor carriers.**—For 1960-1973, class I for-hire motor carriers of freight were classified by the ICC as those with \$1 million or more of gross annual operating revenue; 1974-1979, the class I minimum was \$3 million. Effective January 1, 1980 class I carriers are those with \$5 million or more in revenue. For 1960-1968, class I motor carriers of passengers were classified by the ICC as those with \$200,000 or more of gross annual operating revenue; for 1969-1976, as those with revenues of \$1 million or more; and since 1977, as those with \$3 million or more.

**Railroads.**—Railroad companies reporting to the ICC are divided into specific groups as follows: (1) Regular line-haul (interstate) railroads (and their non-operating subsidiaries); (2) switching and terminal railroads; (3) private railroads prior to 1964 (identified by ICC as "circular" because they reported on brief circulars); and (4) unofficial railroads, so designated when their reports are received too late for tabulation. For the most part, the last 3 groups are not included in the statistics shown here.

For years prior to 1978, class I railroads were those with annual revenues of \$1 million or more for 1950-1955; \$3 million or more for 1956-1964; \$5 million or more for 1965-1975; and \$10 million or more for 1976-1977. In 1978, the classification became class I, those having more than \$50 million gross annual operating revenue; class II, from \$10 million to \$50 million; and class III, less than \$10 million. Effective January 1, 1982, the ICC adopted a procedure to adjust the threshold for inflation by restating current revenues in constant 1978 dollars. In 1985, the criteria for class I and class II railroads were \$87.9 million and \$17.6 million, respectively. Also effective January 1, 1982, the ICC adopted a *Carrier Classification Index Survey Form* for carriers not filing annual report form R-1 with the commission. Class II and class III railroads are currently exempted from filing any financial report with the Commission. The form is used for reclassifying carriers.

**Statistical reliability.**—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability, see Appendix III.

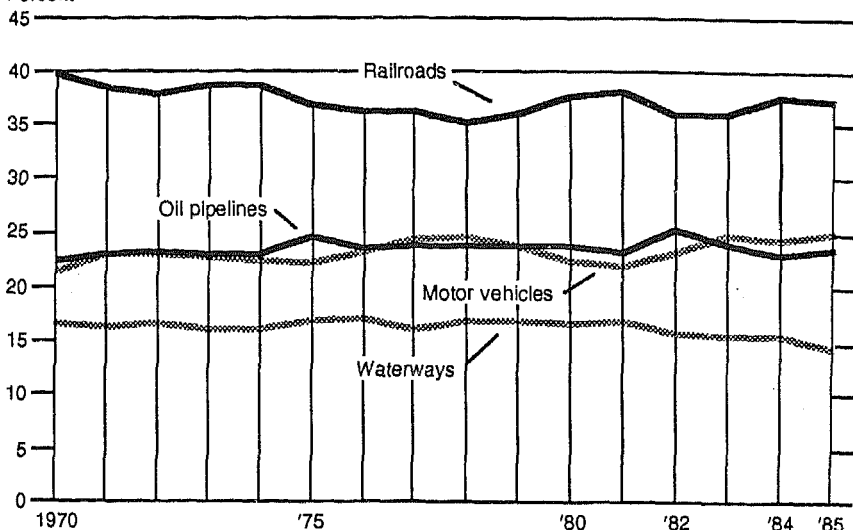
**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

**Statistics for States and metropolitan statistical areas (MSAs).**—Data for States and MSAs may also be found in *State and Metropolitan Area Data Book 1986*. For cross-references, see Appendix V.

Figure 21.1

### Ton - Miles of Domestic Intercity Freight Traffic - Percent Distribution by Type of Transportation: 1970 to 1985

Percent



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1009.

# NO. 1004. PASSENGER AND FREIGHT TRANSPORTATION OUTLAYS, BY TYPE OF TRANSPORT: 1960 TO 1985

[In billions of dollars. Freight data include outlays for mail and express. ICC=Interstate Commerce Commission]

TYPE OF TRANSPORT	1960	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985, est.
<b>Total outlays <sup>1</sup></b>	<b>105.6</b>	<b>195.6</b>	<b>297.8</b>	<b>348.9</b>	<b>392.2</b>	<b>446.1</b>	<b>492.4</b>	<b>540.1</b>	<b>598.2</b>	<b>598.6</b>	<b>649.5</b>	<b>710.8</b>	<b>747.0</b>
Passenger, total	60.5	114.9	187.4	221.8	246.3	279.3	307.6	335.9	373.5	377.7	409.0	451.4	477.0
Private transportation	53.3	99.6	161.3	191.8	215.0	241.9	269.9	294.8	317.4	320.6	347.2	384.8	407.9
Automobiles <sup>2</sup>	52.4	97.0	156.6	186.6	210.0	235.9	258.8	276.7	306.0	312.4	339.8	376.7	399.4
New and used cars	20.4	32.1	46.0	59.7	70.4	80.4	77.1	79.3	82.8	85.7	105.6	127.2	136.0
Tires, tubes, accessories	2.9	7.1	12.4	13.8	15.8	17.2	19.8	22.2	24.8	24.8	26.9	28.0	30.4
Gasoline and oil	16.0	29.9	53.9	58.6	58.7	60.3	78.3	99.7	111.3	106.3	105.9	107.5	108.0
Insurance less claims	2.4	4.4	4.5	6.4	9.5	10.2	10.3	11.5	10.8	11.2	12.5	12.8	13.0
Interest on debt	2.8	4.7	7.3	8.6	10.4	12.8	15.4	17.5	21.0	21.8	19.8	21.7	22.0
Registration and operator's permit fees	1.0	1.9	2.3	2.7	2.8	3.0	3.1	3.3	3.5	3.8	4.1	4.3	4.5
Repair, greasing, washing, parking, tolls <sup>3</sup>	6.0	13.2	22.1	25.0	29.5	33.0	36.7	38.0	41.5	43.5	45.7	49.8	53.0
Air	.9	2.6	4.7	5.2	5.6	5.9	7.1	8.1	9.4	8.2	7.4	8.1	8.5
Aircraft	.2	.4	1.0	1.2	1.5	1.7	2.1	2.9	3.8	2.8	1.9	2.4	2.6
Operating costs	.7	2.3	3.8	4.0	4.1	4.2	5.0	5.2	5.6	5.4	5.5	5.7	5.9
For-hire transportation	7.2	15.3	26.2	30.0	33.3	37.3	43.3	52.2	56.1	57.1	61.8	66.6	67.5
Local <sup>4</sup>	3.1	5.4	10.5	12.1	12.7	13.9	15.4	18.5	20.4	21.3	22.3	23.6	23.0
Bus and transit <sup>5</sup>	1.3	1.8	4.7	5.8	5.9	6.7	7.5	9.2	10.1	10.3	11.4	11.7	12.0
School bus	.5	1.2	2.2	2.4	2.5	2.7	3.2	3.8	4.7	5.0	5.2	5.3	5.4
Taxi	1.1	2.1	3.4	3.8	4.1	4.3	4.5	5.2	5.2	5.8	5.3	5.3	5.3
Intercity	3.3	7.7	12.9	14.9	17.2	19.6	23.3	28.4	30.6	30.5	33.5	37.4	37.0
Air	2.1	6.6	11.2	13.0	14.9	17.1	20.4	25.1	26.8	26.8	29.7	33.6	33.1
Rail <sup>6</sup>	.6	.3	.6	.9	1.2	1.3	1.4	1.6	1.9	1.8	1.8	1.8	2.0
Bus	.6	.8	1.0	1.1	1.1	1.2	1.4	1.7	1.6	1.9	2.0	2.0	1.9
International	.9	2.2	2.7	2.9	3.4	3.8	4.6	5.3	5.3	5.4	6.0	6.6	7.0
<b>Freight, total <sup>4</sup></b>	<b>46.8</b>	<b>83.8</b>	<b>115.5</b>	<b>133.2</b>	<b>150.4</b>	<b>174.0</b>	<b>192.9</b>	<b>212.1</b>	<b>234.6</b>	<b>220.9</b>	<b>240.5</b>	<b>259.4</b>	<b>270.0</b>
Highway	31.5	62.5	84.8	98.0	111.4	128.8	142.7	155.4	173.3	162.7	180.5	193.4	205.0
Truck, intercity	18.0	33.6	47.4	56.2	67.4	79.6	90.2	94.8	100.2	99.9	111.1	118.5	124.8
ICC regulated	7.2	14.6	22.0	26.0	31.0	36.5	41.2	43.0	47.9	44.1	46.5	52.1	54.2
Non-ICC regulated	10.7	19.0	25.4	30.2	36.4	43.1	49.0	51.8	52.3	55.8	64.6	68.4	70.6
Truck, local	13.5	28.8	37.3	41.6	43.9	49.1	52.3	60.5	72.8	62.5	69.2	74.7	80.0
Rail	9.0	11.9	16.5	19.2	20.5	21.9	24.8	27.7	30.5	27.1	27.3	30.1	28.0
Water	3.3	5.1	7.9	8.9	10.3	12.4	13.4	14.8	15.7	15.6	16.2	18.1	20.0
Oil pipeline	.9	1.4	2.2	2.5	3.2	5.5	6.2	7.1	7.4	7.9	8.3	8.7	9.0
Air carrier	.4	1.2	1.8	2.1	2.4	2.7	2.8	4.0	4.3	4.4	5.0	5.7	5.5

<sup>1</sup> Total outlays less than sum of passenger and freight totals, as estimated freight costs included in costs of new cars, gasoline, oil, tires, and tubes have been excluded to prevent duplication. <sup>2</sup> Includes business-owned vehicles. <sup>3</sup> Includes storage and rental. <sup>4</sup> Includes items not shown separately. <sup>5</sup> Includes Federal, State and local government operating subsidies and capital grants. <sup>6</sup> Includes Federal operating subsidies and capital grants for Amtrak.

Source: Transportation Policy Associates, Washington, DC, *Transportation in America*, March 1986, with periodic supplements. (Copyright.)

## NO. 1005. PERSONAL CONSUMPTION EXPENDITURES FOR TRANSPORTATION: 1960 TO 1985

[In billions of dollars, except percent. Represents market value of purchases of goods and services by individuals and nonprofit institutions]

TYPE OF PRODUCT OR SERVICE	1960	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>Total expenditures</b>	<b>42.9</b>	<b>81.5</b>	<b>131.2</b>	<b>157.1</b>	<b>181.5</b>	<b>199.9</b>	<b>222.0</b>	<b>238.5</b>	<b>261.5</b>	<b>267.6</b>	<b>295.4</b>	<b>327.3</b>	<b>349.8</b>
Percent of total personal consumption <sup>1</sup>	13.0	12.7	13.0	13.9	14.4	14.2	14.2	13.8	13.7	13.0	13.2	13.5	13.5
User-operated transportation	39.5	74.5	119.9	144.0	166.8	183.7	203.5	216.8	238.0	243.7	270.5	299.4	320.3
New autos	14.0	21.9	29.3	38.2	44.4	48.5	49.3	46.4	50.7	53.3	66.2	77.8	87.2
Net purchases of used autos	2.6	5.2	8.5	11.1	12.2	13.7	14.8	14.9	17.8	19.6	21.6	27.9	28.1
Other motor vehicles	.6	2.7	7.7	12.1	15.9	19.2	17.6	12.3	12.9	15.6	20.7	25.4	29.8
Tires, tubes, accessories, other parts	2.5	6.1	10.3	11.4	12.9	13.7	15.3	16.7	19.1	20.2	21.9	23.4	24.1
Repair, greasing, washing, parking <sup>2</sup>	5.5	12.3	19.8	22.1	25.7	28.0	31.1	32.3	34.8	35.4	38.4	42.8	47.8
Gasoline and oil	12.0	21.9	39.7	43.0	46.9	51.3	66.1	83.7	92.7	89.1	90.2	90.7	91.9
Bridge, tunnel, ferry, road tolls	.3	.7	.8	.9	.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3	1.4
Insurance premiums less claims paid	2.0	3.8	3.8	5.3	7.8	8.3	8.4	9.4	8.9	9.1	10.3	10.0	10.0
Purchased local transportation <sup>3</sup>	2.1	3.2	4.2	4.6	5.0	5.3	5.9	6.1	6.6	6.8	6.9	7.4	7.6
Transit systems	1.3	1.6	1.9	2.0	2.1	2.2	2.4	2.4	2.7	3.0	3.1	3.4	3.5
Taxicab	.6	1.2	2.0	2.2	2.4	2.6	2.9	3.1	3.2	3.0	2.9	3.0	3.1
Purchased intercity transportation	1.3	4.0	7.3	8.6	9.9	11.1	13.0	15.9	17.3	17.6	18.4	21.0	22.4
Airline	.7	3.1	5.9	7.1	8.3	9.3	10.9	13.4	14.5	14.7	15.3	17.5	18.6
Bus	.3	.5	.7	.8	.8	.8	1.0	1.2	1.3	1.3	1.2	1.2	1.2
Railway and other <sup>4</sup>	.3	.4	.7	.8	.9	.9	1.1	1.3	1.5	1.7	1.9	2.2	2.7

<sup>1</sup> See table 710. <sup>2</sup> Includes rental and storage. <sup>3</sup> Includes railway commutation, not shown separately. <sup>4</sup> Railway excludes commutation; "other" consists of baggage charges, coastal and inland waterway fares, and travel agents' fees.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

## NO. 1006. FEDERAL OUTLAYS FOR TRANSPORTATION, BY FUNCTION: 1970 TO 1986

[In millions of dollars. For fiscal years ending in year shown; see text, section 10]

FUNCTION	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986, est.
Total outlays.....	7,008	10,918	14,829	15,521	17,532	21,329	23,379	20,625	21,334	23,669	25,838	27,106
Percent of total outlays.....	3.6	3.3	3.6	3.4	3.5	3.6	3.4	2.8	2.6	2.8	2.7	2.8
Average annual percent change <sup>1</sup> .....	7.4	9.3	16.5	4.7	13.0	21.7	9.6	-11.8	3.4	10.9	9.2	4.9
Ground transportation.....	4,678	7,027	10,226	10,431	12,115	15,274	17,074	14,321	14,285	16,158	17,606	18,615
Air transportation.....	1,408	2,387	2,786	3,243	3,355	3,723	3,814	3,526	4,000	4,415	4,895	4,954
Water transportation.....	895	1,430	1,741	1,787	1,969	2,229	2,381	2,687	2,969	3,010	3,201	3,397
Other transportation.....	26	74	76	61	93	104	110	90	99	85	137	140

<sup>1</sup> Change from prior year shown; 1970 change from 1969.Source: U.S. Office of Management and Budget, *The Budget of the United States Government*, annual.

## NO. 1007. OPERATING, PASSENGER, AND FREIGHT REVENUES, BY TRANSPORT TYPE: 1970 TO 1984

TYPE OF TRANSPORT	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984
OPERATING REVENUES (mil. dol.)										
Air carrier, certificated <sup>1</sup> .....	9,290	15,356	19,926	22,892	27,227	33,728	28,788	28,728	31,014	35,373
Bus, class I, intercity.....	722	955	983	1,037	1,205	1,394	1,466	1,439	1,276	1,255
Local transit.....	(NA)	3,410	4,184	4,862	5,771	6,638	7,552	7,739	8,742	10,039
Oil pipeline.....	1,188	2,220	3,209	5,452	6,206	7,062	7,420	7,933	8,302	8,693
Gas pipeline (transmission companies) <sup>2</sup> .....	5,928	11,898	19,836	22,989	29,919	41,604	50,188	55,847	53,577	53,319
Motor carriers of property, class I, intercity, class I.....	11,137	16,164	22,520	26,855	29,858	30,338	32,523	32,246	33,899	35,820
Railroad, class I.....	11,992	16,402	20,090	21,721	25,219	28,102	30,899	27,504	26,729	29,453
Amtrak.....	( <sup>3</sup> )	253	310	321	398	454	512	514	505	659
Water transport, IJC-regulated <sup>4</sup> .....	372	946	924	867	854	937	1,029	1,028	1,020	1,087
Water transport, maritime.....	893	1,342	1,643	1,889	2,235	<sup>5</sup> 2,340	<sup>5</sup> 3,133	<sup>5</sup> 2,817	<sup>5</sup> 2,653	<sup>5</sup> 2,706
Freight forwarders, class A.....	211	359	615	603	701	721	810	693	628	506
AVERAGE PASSENGER REVENUE PER PASSENGER-MILE (cents)										
Air carrier, certificated: <sup>6</sup> Total.....	6.00	7.69	8.61	8.49	8.96	11.53	12.74	12.02	12.05	12.82
First class.....	8.30	10.58	12.21	11.97	11.43	14.35	14.14	13.82	14.61	15.67
Coach plus economy.....	5.45	7.05	7.92	7.81	8.34	10.67	12.37	11.53	11.34	12.06
Railroad, class I: <sup>7</sup> Total.....	3.91	4.99	5.74	5.86	6.02	6.75	8.06	8.47	9.23	9.46
Commutation.....	3.75	4.57	5.07	5.20	5.37	5.82	6.76	7.06	7.64	7.87
Non-commutation.....	4.02	6.25	7.85	7.84	7.93	9.39	10.49	11.42	12.35	12.60
Amtrak.....	( <sup>3</sup> )	5.66	5.83	6.08	6.59	8.18	9.38	10.19	10.65	10.91
Bus, class I, intercity.....	3.60	4.85	5.18	5.62	6.21	7.26	8.35	8.18	8.40	8.73
AVERAGE FREIGHT REVENUE PER TON-MILE (cents)										
Air carrier, certificated <sup>8</sup> .....	21.91	28.22	34.20	37.10	41.02	46.29	46.69	46.78	44.72	45.27
Railroad, class I.....	1.43	2.04	2.29	2.36	2.60	2.85	3.18	3.21	3.12	3.09
Motor carriers of property, class I and II intercity: <sup>9</sup>										
Common.....	7.46	9.17	10.69	10.57	11.59	12.91	13.98	14.09	13.55	13.63
Contract.....	6.88	7.85	8.86	10.50	11.19	11.78	11.55	12.03	11.41	11.55
Oil pipelines.....	.27	.37	.49	.77	.85	1.00	1.09	1.16	1.24	1.27
Inland waterway carriers <sup>9</sup> .....	.43	.52	.56	.62	.67	.77	.85	.84	.82	.82

NA. Not available.

<sup>1</sup> Domestic and international.<sup>2</sup> Data not directly comparable from year to year due to acquisitions and mergers.<sup>3</sup> Amtrak established May 1, 1971.<sup>4</sup> Inland and coastal.<sup>5</sup> Figures include only those American flag carriers being subsidized by MARAD.<sup>6</sup> Scheduled service (domestic).<sup>7</sup> Excludes Amtrak and Auto-Train service.<sup>8</sup> Intercity service excluding carriers of household goods.<sup>9</sup> Excludes coastal and Great Lakes carriers (covers Mississippi River and tributaries).Source: U.S. Dept. of Transportation, Transportation Systems Center, *National Transportation Statistics*, annual.

## NO. 1008. EMPLOYMENT AND EARNINGS IN TRANSPORTATION, BY INDUSTRY: 1970 TO 1985

[Annual averages of monthly figures. Based on Current Employment Statistics program; see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series Q 36-42]

SIC code	INDUSTRY	1970	1980	1981	1982	1983	1984	1985
(X)	NUMBER (1,000)	2,684	2,962	2,922	2,788	2,745	2,917	3,006
40	Railroads.....	634	532	495	429	376	376	357
4011	Class I railroads.....	568	482	457	398	348	345	323
41	Local and interurban passengers.....	269	265	263	257	257	271	276
421, 3	Trucking, incl. terminals.....	989	1,199	1,198	1,125	1,132	1,227	1,274
422	Public warehousing.....	84	91	88	84	85	91	95
44	Water transportation.....	213	213	219	202	191	191	190
45	Air transportation.....	352	453	455	444	455	489	519
46	Pipelines, exc. natural gas.....	18	21	22	21	20	19	18
47	Transportation services.....	115	198	210	220	229	253	277
(X)	AVERAGE WEEKLY EARNINGS (dol.)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
40	Railroads.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
4011	Class I railroads.....	172	427	458	484	542	573	595
41	Local and interurban passengers.....	(NA)	217	231	248	252	258	262
421, 3	Trucking, incl. terminals.....	164	366	395	401	408	415	412
422	Public warehousing.....	121	248	266	277	288	306	314
44	Water transportation.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
45	Air transportation.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
46	Pipelines, exc. natural gas.....	189	441	481	535	585	587	629
47	Transportation services.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. <sup>1</sup> Standard Industrial Classification, see text, section 13.Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

## NO. 1009. VOLUME OF DOMESTIC INTERCITY FREIGHT AND PASSENGER TRAFFIC, BY TYPE OF TRANSPORT: 1970 TO 1985

[A ton-mile is the movement of 1 ton (2,000 pounds) of freight for the distance of 1 mile. A passenger-mile is the movement of 1 passenger for the distance of 1 mile. Comprises public and private traffic, both revenue and nonrevenue. See also *Historical Statistics, Colonial Times to 1970*, series Q1-22]

TYPE OF TRANSPORT	1970	1973	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985 <sup>1</sup>
BILLIONS OF TON-MILES													
FREIGHT TRAFFIC													
Total.....	1,936	2,232	2,066	2,202	2,307	2,467	2,573	2,487	2,430	2,252	2,337	2,497	2,414
Railroads.....	771	858	769	800	834	868	927	932	924	810	841	935	898
Motor vehicles.....	412	505	454	510	555	599	608	555	527	520	575	605	600
Inland waterways <sup>2</sup> .....	319	358	342	373	368	409	425	407	410	351	359	382	348
Oil pipelines.....	431	507	507	515	546	586	608	588	564	566	556	568	582
Domestic airways <sup>3, 4</sup> .....	3.3	4.0	3.7	3.9	4.2	4.8	4.6	4.8	5.0	5.1	5.9	6.6	6.4
PERCENT DISTRIBUTION													
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Railroads.....	39.82	38.44	36.74	36.33	36.15	35.18	36.03	37.47	38.02	36.00	35.99	37.44	37.20
Motor vehicles.....	21.28	22.63	21.97	23.16	24.06	24.28	23.84	22.32	21.69	23.11	24.50	24.23	24.86
Inland waterways <sup>2</sup> .....	16.48	16.04	16.55	16.94	15.95	16.58	16.52	16.37	16.87	15.60	15.39	15.30	14.42
Oil pipelines.....	22.26	22.72	24.54	23.39	23.67	23.75	23.64	23.64	23.21	25.16	23.79	22.75	23.26
Domestic airways <sup>3, 4</sup> .....	.17	.18	.19	.18	.18	.19	.18	.19	.20	.23	.25	.26	.26
BILLIONS OF PASSENGER-MILES													
PASSENGER TRAFFIC													
Total.....	1,181	1,341	1,354	1,460	1,529	1,602	1,590	1,558	1,574	1,609	1,647	1,739	1,812
Private automobiles.....	1,026	1,163	1,171	1,280	1,316	1,382	1,322	1,300	1,319	1,344	1,364	1,437	1,484
Domestic airways <sup>5</sup> .....	119	143	148	164	177	203	226	219	216	227	245	293	290
Bus <sup>6</sup> .....	25	26	25	25	26	26	26	27	27	27	27	27	26
Railroads <sup>7</sup> .....	11	9	10	11	10	11	12	11	12	11	11	12	12
PERCENT DISTRIBUTION													
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Private automobiles.....	86.88	86.73	86.48	86.30	86.07	85.02	83.14	83.44	83.80	83.53	82.82	82.63	81.90
Domestic airways <sup>5</sup> .....	10.08	10.66	10.93	11.23	11.58	12.67	14.34	14.06	13.72	14.11	14.88	15.12	16.00
Bus <sup>6</sup> .....	2.12	1.94	1.85	1.71	1.70	1.62	1.76	1.73	1.72	1.68	1.64	1.55	1.43
Railroads <sup>7</sup> .....	.93	.67	.74	.75	.65	.69	.75	.71	.76	.68	.67	.69	.66

<sup>1</sup> Estimated by source, based on available data. <sup>2</sup> Includes Great Lakes. <sup>3</sup> Revenue service only for scheduled and non-scheduled carriers, with small Section 418 air-cargo carriers included from 1978. <sup>4</sup> Includes express, mail, and excess baggage. <sup>5</sup> Includes general aviation (mostly private business) flying. <sup>6</sup> Excludes school and urban transit buses. <sup>7</sup> Includes electric railways and rail commuter service.

Source: Transportation Policy Associates, Washington, DC, *Transportation in America*, March 1986, with periodic supplements. (Copyright.)

# NO. 1010. TRANSPORTATION ACCIDENTS, AND RESULTING DEATHS AND INJURIES, BY TYPE OF TRANSPORT: 1970 TO 1985

[For motor vehicle data, see also tables 1026 and 1027; for railroad data, see also tables 1048 and 1054; for air carrier and general aviation data, see also tables 1058 and 1061]

YEAR AND CASUALTY	Total (1,000)	TYPE OF TRANSPORT											Hazardous materials <sup>11</sup>
		Motor vehicle <sup>1</sup> (1,000)	Railroad <sup>2</sup>	Air carriers				General aviation <sup>6</sup>	Recreational boating <sup>7</sup>	Gas pipelines <sup>8</sup>	Liquid pipelines <sup>9</sup>	Waterborne <sup>10</sup>	
				Total	Air-lines <sup>3</sup>	Com-muter air carriers <sup>4</sup>	On de-mand air carriers <sup>5</sup>						
Accidents:													
1970.....	16,013	16,000	8,095	(NA)	(NA)	(NA)	(NA)	(NA)	3,803	1,019	351	(NA)	(NA)
1975.....	16,524	16,500	8,041	237	37	48	152	3,995	6,308	1,373	254	3,310	10,951
1980.....	17,925	17,900	8,451	228	19	38	171	3,590	5,513	1,996	219	4,624	15,737
1981.....	18,020	18,000	5,781	214	26	31	157	3,500	5,208	1,895	239	3,503	10,070
1982.....	18,118	18,100	4,589	178	19	27	132	3,231	5,377	1,711	200	3,174	6,836
1983.....	18,319	18,300	3,906	184	25	19	140	3,060	5,569	1,575	161	4,704	5,845
1984.....	18,817	18,800	3,900	185	18	21	146	3,008	5,700	965	188	3,275	5,776
1985.....	(NA)	(NA)	3,426	194	24	17	153	2,748	6,237	331	183	2,259	5,984
Deaths:													
1970.....	54.8	52.6	785	(NA)	(NA)	(NA)	(NA)	(NA)	1,418	22	4	(NA)	(NA)
1975.....	48.2	44.5	575	221	124	28	69	1,252	1,466	14	7	243	27
1980.....	54.5	51.1	584	143	1	37	105	1,239	1,360	11	3	206	19
1981.....	52.5	49.3	556	132	4	34	94	1,282	1,206	17	5	154	25
1982.....	47.2	43.9	512	320	234	14	72	1,182	1,178	31	-	223	12
1983.....	45.7	42.8	498	89	15	12	62	1,081	1,241	12	6	289	6
1984.....	44.6	44.3	598	102	4	46	52	1,115	1,063	35	-	113	7
1985.....	44.1	43.8	454	638	526	35	77	944	1,116	28	5	69	8
Injuries:													
1970.....	2,024	2,000	21,327	(NA)	(NA)	(NA)	(NA)	(NA)	780	347	21	(NA)	(NA)
1975.....	1,858	1,800	54,306	109	71	6	32	728	2,136	819	17	97	848
1980.....	2,066	2,000	62,246	74	17	14	43	675	2,650	310	15	176	626
1981.....	1,956	1,900	53,003	82	21	24	37	597	2,474	74	22	141	643
1982.....	1,741	1,700	37,638	98	31	28	39	620	2,682	220	8	271	130
1983.....	1,836	1,600	32,196	49	9	12	29	566	2,913	242	9	209	193
1984.....	1,739	1,700	35,660	67	9	23	35	595	2,709	229	19	134	257
1985.....	1,735	1,700	31,617	73	10	12	51	497	2,757	121	17	57	250

- Represents zero. NA Not available. <sup>1</sup> Data on deaths are from U.S. National Highway Traffic Safety Administration and are based on 30 day definition; see table 1026. Other data are from National Safety Council. <sup>2</sup> Train accidents cover only those accidents which result in damages to railroad property exceeding amounts specified by the U.S. Federal Railroad Administration. The reporting threshold was raised from \$750 to \$1,750 in 1975; to \$2,900 in 1979; to \$3,700 in 1981; to \$4,500 in 1983; and to \$4,900 in 1985. Grade crossing accidents are also included when classified as a train accident. Deaths exclude fatalities in railroad-highway grade crossing accidents. <sup>3</sup> Includes scheduled and non-scheduled (charter) air carriers operating under 14 CFR 121, 125, and 127. Injuries include only serious injuries. <sup>4</sup> All scheduled service operating under 14 CFR 135. Injuries include only serious injuries. <sup>5</sup> All non-scheduled service operating under 14 CFR 135. Injuries include only serious injuries. <sup>6</sup> 1975-1984 data exclude commuter and on-demand air taxis operating under 14 CFR 135. <sup>7</sup> Accidents are required to be reported to the U.S. Coast Guard whenever they result in a death; a person being injured or receiving medical treatment beyond first aid; damages exceed \$200; or a person's disappearance. <sup>8</sup> Pipeline accidents/incidents are credited to the year in which they occurred beginning with 1983 data; prior data are credited to the year the accident/incident reports were filed. Fatalities and injuries as reported in annual report. <sup>9</sup> Pipelines carrying hazardous materials, petroleum, and liquid petroleum products. <sup>10</sup> Covers accidents involving commercial vessels which must be reported to U.S. Coast Guard if there is property damage exceeding \$1,500; material damage affecting the seaworthiness or efficiency of a vessel; stranding or grounding; loss of life; or injury causing a person's incapacity for more than 3 days. <sup>11</sup> Accidents, deaths, and injuries involving hazardous materials cover all types of transport.

Source: U.S. Dept. of Transportation, Transportation Systems Center, Cambridge, MA, *Transportation Safety Information Report*, annual.

## NO. 1011. HIGHWAY MILEAGE—PAVEMENT CONDITION FOR URBAN AND RURAL AREAS, BY TYPE OF ROAD SYSTEM: 1978 TO 1984

[Highway pavement condition is classified by the Present Serviceability Rating (PSR) system, which ranges from a high of 5.0 down to 0.1. The reported ranges are defined as: PSR 5.0-3.5, pavements give a first class ride and exhibit few, if any, visible signs of surface wear. Of the quality of new or nearly new pavements. PSR 3.4-2.0, pavements have a riding quality somewhat inferior to that of new pavements or may even be barely tolerable at high speeds. Surfaces may show signs of cracking, substantial patching, and rutting. PSR 1.9-0.1, pavements show extensive wear to the point of needing resurfacing or may even need complete reconstruction]

PAVEMENT CONDITION	INTERSTATE ROAD SYSTEMS				ARTERIAL ROAD SYSTEMS				COLLECTOR ROAD SYSTEMS			
	1978	1980	1983	1984	1978	1980	1983	1984	1978	1980	1983	1984
URBAN AREAS												
Percent of road mileage rated—												
PSR 0.1-1.9 (0.1-2.4) <sup>1</sup> .....	8	6	10	9	5	7	6	6	7	9	9	8
PSR 2.0-3.4 (2.5-3.4) <sup>1</sup> .....	34	26	37	36	48	42	52	52	59	50	57	58
PSR 3.5-5.0.....	58	68	53	55	47	51	42	42	34	41	34	34
RURAL AREAS												
Percent of road mileage rated—												
PSR 0.1-1.9 (0.1-2.4) <sup>1</sup> .....	9	5	9	8	6	6	7	6	9	16	13	11
PSR 2.0-3.4 (2.5-3.4) <sup>1</sup> .....	28	26	33	34	52	46	51	50	66	55	55	56
PSR 3.5-5.0.....	63	69	58	58	42	48	42	44	25	29	32	33

<sup>1</sup> PSR range shown in parentheses applies to Interstate roads only.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

### No. 1012. HIGHWAY MILEAGE—URBAN AND RURAL, BY TYPE OF CONTROL, AND FEDERAL-AID HIGHWAY SYSTEM: 1950 TO 1984

[In thousands, except percent. As of Dec. 31. Beginning 1980, data for urban and rural mileage are not comparable to prior years because of classification changes; see text, section 21. See also *Historical Statistics, Colonial Times to 1970*, series Q 50, 51, and 55]

TYPE AND CONTROL	1950	1955	1960	1965	1970	1975	1979	1980	1981	1982	1983	1984
<b>Total mileage <sup>1</sup></b> .....	<b>3,313</b>	<b>3,418</b>	<b>3,546</b>	<b>3,690</b>	<b>3,730</b>	<b>3,838</b>	<b>3,918</b>	<b>3,955</b>	<b>3,853</b>	<b>3,866</b>	<b>3,880</b>	<b>3,892</b>
Urban mileage <sup>3</sup> .....	323	373	430	506	561	639	694	624	632.	641	662	674
Under State control.....	36	42	50	65	74	84	86	79	90	103	100	103
Under local control.....	287	331	379	442	487	555	607	543	540	536	562	571
Rural mileage.....	2,990	3,045	3,116	3,183	3,169	3,199	3,224	<sup>2</sup> 3,331	3,221	3,226	3,217	3,218
Percent surfaced <sup>4</sup> .....	56.2	63.8	69.5	72.3	76.1	77.6	77.5	77.5	86.1	85.7	86.0	87.5
Under State control.....	580	620	659	687	707	711	697	702	726	<sup>5</sup> 825	817	818
Under local control.....	2,336	2,333	2,345	2,346	2,275	2,261	2,281	2,270	2,236	<sup>6</sup> 2,140	2,138	2,134
Under Federal control.....	73	93	112	150	188	227	244	262	256	261	262	286
Federal-aid highway system: <sup>6</sup>												
Primary.....	234	235	285	289	272	268	303	300	298	298	300	300
Interstate.....	(X)	(X)	10	21	32	37	40	41	42	42	43	43
Urban.....	(X)	(X)	(X)	(X)	(X)	65	124	124	129	134	137	140
Secondary.....	410	514	601	640	647	643	397	398	401	402	397	398

X Not applicable. <sup>1</sup> Prior to 1980, includes public and nonpublic road mileage; beginning 1981, includes only public road mileage as defined 23 USC 402. <sup>2</sup> Includes 98,000 miles of nonpublic road mileage previously contained in other rural categories. <sup>3</sup> Prior to 1980, represents municipal mileage; see text, section 21. <sup>4</sup> Covers soil-surfaced roads and roads with slag, gravel, stone, bituminous, or concrete surfaces. <sup>5</sup> Incomplete reporting from Alaska, Missouri, and Pennsylvania for control accounts for changes between 1981 and 1982. <sup>6</sup> For definition, see text, section 21. Beginning 1979, data represent actual mileage open to traffic rather than total highway miles carrying interstate traffic.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

### No. 1013. HIGHWAY MILEAGE—URBAN, RURAL, AND FEDERAL-AID HIGHWAY SYSTEM: 1984

[As of Dec. 31. For definition of urban, rural, and Federal-aid highway system roads; see text, section 21]

STATE	Urban (1,000)	Rural (1,000)	FEDERAL-AID HIGHWAY SYSTEM <sup>1</sup>				STATE	Urban (1,000)	Rural (1,000)	FEDERAL-AID HIGHWAY SYSTEM <sup>1</sup>			
			Primary		Urban	Sec- ondary				Primary		Urban	Sec- ondary
			Total	Inter- state						Total	Inter- state		
U.S. ....	673.8	3,218.0	300,018	43,291	140,492	397,796	MO. ....	14.8	104.1	8,041	1,142	2,354	18,129
AL. ....	14.3	73.2	7,531	857	2,526	11,252	MT. ....	2.3	69.2	6,627	1,147	327	4,739
AK. ....	1.6	9.9	2,135	1,091	233	1,801	NE. ....	4.9	87.1	7,703	481	1,055	11,413
AZ. ....	8.8	67.3	4,645	1,140	1,614	3,149	NV. ....	3.0	40.8	2,388	539	511	2,331
AR. ....	7.6	69.5	5,697	541	1,099	7,054	NH. ....	2.4	12.1	1,345	207	715	1,233
CA. ....	64.9	108.1	13,456	2,380	16,439	11,200	NJ. ....	22.4	11.5	1,848	383	5,352	1,721
CO. ....	10.5	65.2	5,253	926	2,228	3,387	NM. ....	4.5	49.7	4,564	1,000	647	3,949
CT. ....	10.7	8.9	1,605	336	2,947	896	NY. ....	36.8	73.0	9,882	1,493	8,688	6,330
DE. ....	1.5	3.8	470	41	305	605	NC. ....	17.6	75.1	5,198	796	2,395	10,380
DC. ....	1.1	-	180	12	239	-	ND. ....	1.6	84.4	6,105	571	395	10,492
FL. ....	31.5	67.5	9,647	1,302	5,562	4,701	OH. ....	30.2	81.6	7,979	1,548	7,519	11,737
GA. ....	18.9	86.6	11,285	1,219	3,809	14,004	OK. ....	12.3	97.9	6,231	926	2,970	9,718
HI. ....	1.4	2.6	531	35	315	447	OR. ....	8.5	126.5	5,716	718	1,996	7,767
ID. ....	2.0	66.7	3,250	606	716	3,989	PA. ....	28.8	87.1	11,474	1,527	6,664	8,123
IL. ....	30.8	103.7	11,467	1,718	6,623	12,921	RI. ....	4.5	1.7	480	70	917	196
IN. ....	17.7	73.9	6,218	1,112	4,857	9,295	SC. ....	8.8	54.8	6,357	784	1,172	8,501
IA. ....	8.5	103.9	9,614	761	2,387	13,375	SD. ....	1.8	71.6	6,483	677	365	11,261
KS. ....	8.4	123.8	8,916	811	1,557	22,552	TN. ....	12.0	72.1	7,016	1,031	2,730	5,945
KY. ....	7.5	61.9	4,512	738	1,844	7,225	TX. ....	65.9	212.9	19,811	3,126	7,293	32,666
LA. ....	12.2	45.9	3,829	693	1,922	7,412	UT. ....	5.1	43.3	3,402	893	835	2,603
ME. ....	2.4	19.6	2,317	312	692	2,728	VT. ....	1.9	13.1	1,436	320	271	1,947
MD. ....	10.1	17.3	2,508	377	1,958	2,022	VA. ....	13.0	52.3	6,443	1,024	2,984	10,313
MA. ....	20.6	13.2	2,776	562	5,902	2,007	WA. ....	15.0	65.7	5,771	723	3,867	7,213
MI. ....	25.2	92.3	7,093	1,129	4,831	19,019	WV. ....	3.0	32.0	2,950	480	793	6,360
MN. ....	13.1	118.4	10,166	878	2,047	16,451	WI. ....	13.9	94.4	9,416	578	2,887	11,822
MS. ....	7.0	64.3	6,353	686	1,686	11,744	WY. ....	1.5	36.7	3,900	904	452	2,271

- Represents zero. <sup>1</sup> Highway mileage open to traffic.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

## NO. 1014. RECEIPTS AND DISBURSEMENTS FOR HIGHWAYS, BY TYPE: 1970 TO 1986

[In millions of dollars. Data compiled from reports of State and local authorities. For Federal highway trust fund receipts, disbursements, and balances, see table 482. State data include District of Columbia]

TYPE	1970	1975	1980	1983	1984	1985, prel.	1986, proj.		
							Total <sup>1</sup>	Federal	State
<b>Total receipts</b> .....	<b>21,747</b>	<b>29,160</b>	<b>39,715</b>	<b>47,772</b>	<b>53,822</b>	<b>58,828</b>	<b>60,963</b>	<b>14,923</b>	<b>30,894</b>
Current income.....	19,861	26,921	37,604	45,275	50,518	54,119	58,668	14,923	28,874
Imposts on highway users <sup>2</sup> .....	15,311	18,578	22,559	27,976	33,279	35,858	37,971	12,087	25,109
Other taxes and fees.....	3,732	6,605	11,808	13,544	13,379	14,319	14,763	1,592	2,515
Investment income and other receipts.....	818	1,738	3,237	3,755	3,860	3,942	3,934	1,244	1,250
Bond issue proceeds <sup>3</sup> .....	1,886	2,239	2,111	2,497	3,304	4,709	4,295	-	2,020
Intergovernmental payments <sup>4</sup> .....	(x)	(x)	(x)	(x)	(x)	(x)	(x)	-14,170	+6,379
Funds drawn from (+) or placed in (-) reserves.....	-912	-461	+2,080	-1,628	-3,439	-2,122	-403	+236	-239
Total funds available.....	20,835	28,699	41,795	46,144	50,384	56,706	60,560	989	37,034
<b>Total disbursements</b> .....	<b>20,835</b>	<b>28,699</b>	<b>41,795</b>	<b>46,144</b>	<b>50,384</b>	<b>56,706</b>	<b>60,560</b>	<b>989</b>	<b>37,034</b>
Current disbursements.....	19,583	27,207	40,084	43,960	47,852	54,334	58,008	989	35,642
Capital outlay.....	11,575	14,398	20,337	20,540	22,897	27,513	29,680	507	22,606
Maintenance and traffic services.....	4,720	7,286	11,445	14,015	15,036	16,016	16,870	136	6,420
Administration and research.....	1,275	1,981	3,022	3,276	3,637	3,777	3,942	346	2,196
Law enforcement and safety.....	1,303	2,413	3,824	4,257	4,625	4,893	5,178	-	2,978
Interest on debt.....	710	1,129	1,458	1,872	1,657	2,135	2,338	-	1,442
Debt retirement <sup>5</sup> .....	1,252	1,492	1,711	2,184	2,532	2,372	2,552	-	1,392

- Represents zero. X Not applicable. <sup>1</sup> Includes other levels of government not shown separately.

<sup>2</sup> Excludes amounts later allocated for nonhighway purposes. <sup>3</sup> Par value. Excludes issue and redemption of short-term notes or refunding bonds. Premiums and discounts on sale of bonds and accrued interest are included with investment income and other receipts. Redemption premiums and discounts are included with interest on debt. <sup>4</sup> Plus sign (+) indicates net receipt of funds from other levels of government; minus sign (-) indicates net disbursement of funds to other levels.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual; and releases.

## NO. 1015. DISBURSEMENTS OF STATE HIGHWAY FUNDS—TOTAL, 1980 TO 1984, AND BY PURPOSE, 1984, BY STATE

[In millions of dollars. Comprises disbursements from current revenues or loans for construction, maintenance, interest and principal payments on highway bonds, transfers to local units, and miscellaneous. Includes transactions by State toll authorities. Excludes amounts allocated for collection and nonhighway purposes, and bonds redeemed by refunding. See also *Historical Statistics, Colonial Times to 1970*, series Q 90-94]

STATE	1980, total	1983, total	1984				STATE	1980, total	1983, total	1984			
			Total <sup>1</sup>	State highway agencies						Total <sup>1</sup>	State highway agencies		
				Capit- al out- lays <sup>2</sup>	Main- te- nance <sup>3</sup>	Law en- force- ment and safety					Capit- al out- lays <sup>2</sup>	Main- te- nance <sup>3</sup>	Law en- force- ment and safety
U.S.....	30,049	32,248	35,623	16,992	5,884	2,528	MO.....	555	568	695	323	160	57
AL.....	517	629	651	364	73	38	MT.....	224	222	268	172	40	14
AZ.....	274	324	347	172	101	7	NE.....	274	327	361	167	44	19
AR.....	365	463	657	311	39	54	NV.....	169	208	198	118	23	14
	425	345	311	162	51	20	NH.....	152	172	181	84	62	23
CA.....	1,930	2,161	2,535	900	383	389	NJ.....	662	804	903	431	191	98
CO.....	411	441	527	237	100	26	NM.....	197	347	386	223	82	16
CT.....	393	457	529	222	64	36	NY.....	1,850	1,876	1,840	909	312	123
DE.....	152	188	209	100	24	17	NC.....	807	745	845	341	279	91
							ND.....	143	187	205	123	27	8
DC.....	57	94	99	42	25	4	OH.....	1,032	1,291	1,528	601	179	91
FL.....	1,261	1,205	1,242	647	128	75	OK.....	461	603	585	249	72	52
GA.....	762	945	812	521	135	50	OR.....	482	437	469	213	55	33
HI.....	134	160	153	82	14	1	PA.....	1,557	1,744	1,989	779	536	160
ID.....	153	184	201	91	42	15	RI.....	72	92	131	81	19	7
IL.....	1,652	1,595	1,965	1,043	234	94	SC.....	309	340	404	217	106	29
IN.....	688	647	755	338	126	41	SD.....	151	185	201	125	32	11
IA.....	504	551	650	283	72	23	TN.....	609	654	710	413	109	31
KS.....	440	368	473	273	87	13	TX.....	1,882	1,762	1,731	1,048	364	99
KY.....	913	770	807	437	121	34	UT.....	241	247	327	209	41	20
LA.....	682	916	860	505	59	51	VT.....	87	115	130	52	33	14
ME.....	184	181	207	83	69	11	VA.....	894	909	952	405	305	69
MD.....	693	837	879	400	121	63	WA.....	787	837	932	420	141	63
MA.....	704	617	719	253	116	64	WV.....	672	467	516	271	101	20
MI.....	997	989	1,299	364	133	137	WI.....	468	639	655	309	96	29
MN.....	611	735	857	455	101	32	WY.....	192	236	277	197	48	9
MS.....	468	456	463	246	51	34							

<sup>1</sup> Includes funds for administration and miscellaneous, bond interest, bond redemption, and county and local roads and streets.

<sup>2</sup> Outlays for roads and bridges. <sup>3</sup> Includes traffic services.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

**NO. 1016. FEDERAL GRANTS TO STATE AND LOCAL GOVERNMENTS FOR HIGHWAY TRUST FUND AND URBAN MASS TRANSPORTATION ADMINISTRATION (UMTA), BY STATE: 1985**

[Year ending Sept. 30]

STATE	HIGHWAY TRUST FUND		UMTA		STATE	HIGHWAY TRUST FUND		UMTA		STATE	HIGHWAY TRUST FUND		UMTA	
	Total (mil. dol.)	Per capita (dol.)	Total (mil. dol.)	Per capita (dol.)		Total (mil. dol.)	Per capita (dol.)	Total (mil. dol.)	Per capita (dol.)		Total (mil. dol.)	Per capita (dol.)	Total (mil. dol.)	Per capita (dol.)
U.S.....	11,619	48.67	3,045	12.76	KY.....	224	60.19	11	2.84	ND.....	85	123.51	2	2.62
AL.....	268	66.55	8	1.93	LA.....	221	49.32	27	5.99	OH.....	398	37.00	81	7.53
AK.....	102	196.08	10	19.78	ME.....	72	61.79	3	2.55	OK.....	118	35.88	9	2.68
AZ.....	247	77.40	16	4.97	MD.....	314	71.53	73	16.62	OR.....	155	57.63	71	26.40
AR.....	117	49.42	5	2.03	MA.....	130	22.99	274	46.99	PA.....	609	51.42	247	20.85
CA.....	926	35.14	402	15.25	MI.....	304	33.41	97	10.67	RI.....	66	67.91	11	11.27
CO.....	200	62.02	26	8.14	MN.....	253	60.45	27	6.37	SC.....	146	43.52	9	2.61
CT.....	182	57.22	32	10.18	MS.....	136	51.88	5	2.10	SD.....	96	135.23	1	1.79
DE.....	49	79.04	3	4.14	MO.....	292	58.14	39	7.76	TN.....	265	55.69	28	5.88
DC.....	38	60.52	103	164.81	MT.....	130	157.18	3	3.24	TX.....	587	35.87	111	6.77
FL.....	434	38.18	116	10.18	NE.....	140	86.88	7	4.17	UT.....	193	117.25	10	6.02
GA.....	336	56.21	119	19.98	NV.....	113	120.55	3	3.44	VT.....	39	73.31	1	1.95
HI.....	37	34.95	7	6.38	NH.....	58	58.49	3	2.75	VA.....	314	55.05	18	3.21
ID.....	89	88.53	3	3.36	NJ.....	244	32.21	160	21.21	WA.....	354	80.33	46	10.48
IL.....	535	46.36	230	19.98	NN.....	114	78.50	5	3.21	WV.....	194	100.22	8	4.27
IN.....	205	37.23	50	9.18	NY.....	582	32.75	468	26.33	WI.....	174	36.37	20	4.10
IA.....	228	79.10	14	4.69	NC.....	247	39.44	17	2.78	WY.....	78	152.69	1	1.30
KS.....	183	74.66	5	2.24										

Source: U.S. Bureau of the Census, *Federal Expenditures by State for Fiscal Year 1985*, March 1986.

**NO. 1017. STATE GASOLINE TAX RATES, 1984 AND 1985, AND MOTOR FUEL TAX RECEIPTS, 1984**

[See also *Historical Statistics, Colonial Times to 1970*, series Q 233-234]

STATE	RATE <sup>1</sup> (cents per gal.)		Re-ceipts, <sup>2</sup> 1984 (mil. dol.)	STATE	RATE <sup>1</sup> (cents per gal.)		Re-ceipts, <sup>2</sup> 1984 (mil. dol.)	STATE	RATE <sup>1</sup> (cents per gal.)		Re-ceipts, <sup>2</sup> 1984 (mil. dol.)
	1984	1985			1984	1985			1984	1985	
Total.....	19.58	(NA)	(X)	IA.....	13	15	194	NC.....	12	12	407
Federal.....	9.0	9.0	(X)	KS.....	11	11	143	ND.....	13	13	54
State.....	10.58	(NA)	12,922	KY <sup>5</sup> .....	10	10	197	OH.....	12	12	625
AL.....	4 13	13	250	LA.....	16	16	290	OK <sup>6</sup> .....	9	10	170
AK.....	8	8	24	ME.....	14	14	87	OR.....	9	10	113
AZ.....	13	13	211	MD.....	13.5	13.5	294	PA.....	12	12	894
AR.....	9.5	13.5	142	MA.....	11	11	276	SC.....	13	13	50
CA.....	9	9	1,149	MI.....	15	15	592	SD.....	13	13	244
CO.....	12	12	195	MN.....	17	17	347	SD.....	13	13	56
CT.....	15	16	198	MS.....	9	9	130	TN.....	10	13	261
DE.....	11	11	39	MO.....	7	7	201	TX.....	10	10	671
DC.....	15.5	15.5	27	MT.....	15	15	82	UT.....	14	14	96
FL.....	9.7	9.7	538	NE.....	14.7	17.4	124	VT.....	13	13	38
GA.....	7.5	7.5	293	NV.....	12	13	70	VA <sup>5</sup> .....	11	11	413
HI.....	8.5	11	29	NH.....	14	14	65	WA.....	18	18	356
ID.....	14.5	14.5	77	NJ.....	8	8	308	WV.....	10.5	10.5	101
IL.....	12	13	594	NY.....	11	11	98	WI.....	16	16.5	356
IN.....	11.1	14	332	NY.....	8	8	412	WY.....	8	8	34

NA Not available. X Not applicable. <sup>1</sup> In effect Dec. 31. <sup>2</sup> Represents net receipts. <sup>3</sup> Represents weighted average based on net gallons taxed. <sup>4</sup> Includes 2 cents per gallon inspection fee. <sup>5</sup> Trucks or combinations with more than 2 axles pay tax of 2 cents per gallon more. <sup>6</sup> .08 cents per gallon is for inspection fee. <sup>7</sup> Includes 1 cent per gallon inspection fee.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

**NO. 1018. PUBLIC HIGHWAY DEBT—STATE AND LOCAL GOVERNMENTS: 1970 TO 1986**

[In millions of dollars. Long-term obligations. State data are for calendar years; local data for varying fiscal years. Excludes duplicated and interunit obligations. Municipal debt includes other political subdivisions urban in character. See also *Historical Statistics, Colonial Times to 1970*, series Q 136-147]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985 <sup>1</sup>	1986 <sup>2</sup>
Total debt issued <sup>3</sup> .....	1,886	2,239	1,883	1,904	2,094	2,574	2,915	2,566	3,504	4,709	4,295
State.....	1,305	1,412	942	941	1,128	965	1,555	1,072	1,715	2,984	2,020
County and township.....	174	222	238	279	276	305	415	475	699	525	975
Municipal.....	407	605	703	684	690	1,304	945	1,019	1,090	1,200	1,300
Total debt redeemed <sup>4</sup> .....	1,252	1,492	1,593	1,751	1,706	2,464	2,046	2,172	2,532	2,372	2,552
State.....	782	908	934	960	1,022	1,579	1,146	1,191	1,507	1,272	1,392
County and township.....	152	166	170	177	209	201	225	303	340	374	400
Municipal.....	318	418	469	614	475	684	675	678	685	726	760
Total debt outstanding.....	19,107	23,801	25,327	25,463	25,851	25,961	26,830	27,224	28,196	30,533	32,276
State.....	13,903	17,422	18,175	18,176	18,282	17,668	18,077	17,958	18,166	19,878	20,506
County and township.....	1,685	1,822	2,075	2,090	2,157	2,281	2,451	2,623	2,982	3,133	3,708
Municipal.....	3,519	4,557	5,077	5,197	5,412	6,032	6,302	6,643	7,048	7,522	8,062

<sup>1</sup> Preliminary. <sup>2</sup> Projection. <sup>3</sup> Excludes refunding issues. <sup>4</sup> Excludes redemptions by refunding.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

## NO. 1019. MOTOR VEHICLES—SUMMARY: 1970 TO 1985

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985
<b>PASSENGER CARS</b>										
Passenger car production.....	1,000	6,550	6,717	8,494	6,376	6,253	5,073	6,781	7,773	8,165
Passenger car factory sales.....	1,000	6,547	6,713	8,419	6,400	6,255	5,049	6,739	7,821	8,002
Passenger car (new), retail sales <sup>1</sup> .....	1,000	8,405	8,640	10,671	8,979	8,536	7,982	9,182	10,390	11,042
Domestic <sup>2</sup> .....	1,000	7,116	7,050	8,341	6,581	6,209	5,759	6,795	7,952	8,205
Subcompact <sup>3</sup> .....	1,000	1,338	700	1,671	1,604	1,830	1,489	1,776	2,322	2,386
Compact <sup>3</sup> .....	1,000		2,336	2,130	1,659	1,568	1,257	1,110	1,336	1,474
Standard <sup>3</sup> .....	1,000	5,778	1,956	2,147	1,358	1,250	1,377	1,825	1,817	1,696
Intermediate <sup>3</sup> .....	1,000		2,058	2,393	1,957	1,757	1,641	2,071	2,484	2,648
Imports <sup>4</sup> .....	1,000	1,285	1,587	2,329	2,398	2,327	2,223	2,387	2,439	2,837
<b>TRUCKS</b>										
Truck and bus production.....	1,000	1,734	2,270	3,046	1,634	1,680	1,912	2,444	3,151	3,465
Truck and bus factory sales.....	1,000	1,692	2,272	3,037	1,667	1,701	1,906	2,414	3,075	3,357
Truck and bus retail sales <sup>5</sup> .....	1,000	1,748	2,351	3,236	2,232	1,972	2,248	2,709	3,538	3,984
Light duty (up to 14,000 GVW) <sup>6</sup> .....	1,000	(NA)	2,078	2,861	1,964	1,747	2,084	2,521	3,261	3,700
Med. duty (14,001-26,000 GVW) <sup>6</sup> .....	1,000	(NA)	169	152	92	74	46	48	61	53
Heavy duty (over 26,000 GVW) <sup>6</sup> .....	1,000	126	108	223	176	152	138	141	216	231
<b>MOTORCYCLES</b>										
Motorcycle registrations, new <sup>7</sup> .....	1,000	751	747	861	838	794	689	811	772	722
Motorcycle (new) retail sales <sup>8</sup> .....	1,000	1,010	940	1,085	1,070	1,065	990	1,195	1,305	1,280
All-terrain vehicles.....	1,000	(NA)	(NA)	(NA)	(NA)	(NA)	250	425	550	550
All-terrain vehicle imports.....	1,000	(NA)	(NA)	(NA)	(NA)	(NA)	275	430	635	683
Motorcycle imports, total <sup>9</sup> .....	1,000	1,091	946	887	1,120	1,057	917	540	441	733
Value <sup>10</sup> .....	Mill. dol.	308	713	870	1,142	1,314	1,110	697	523	783
<b>FOREIGN TRADE</b>										
Passenger cars (new), exported <sup>11</sup> .....	1,000	285	640	793	617	548	379	554	616	704
Passenger cars (new), imported <sup>12</sup> .....	1,000	2,013	2,075	3,006	3,248	2,999	3,067	3,667	4,880	6,406
Canada.....	1,000	693	734	677	595	564	703	837	1,073	1,146
Germany, Federal Republic of.....	1,000	675	370	496	471	376	338	330	399	562
Japan.....	1,000	381	696	1,617	1,992	1,912	1,823	2,112	2,692	3,404
Trucks (new) exports.....	1,000	91	219	251	186	166	124	132	159	183
Trucks (new) imports.....	1,000	166	295	677	747	733	697	785	1,025	1,253
Japan.....	1,000	27	142	397	483	456	356	430	567	800
Import value, new passenger cars <sup>13</sup> .....	Mill. dol.	3,719	7,483	14,852	16,935	17,939	20,397	24,146	30,423	38,011
Trucks and buses, new <sup>14</sup> .....	Mill. dol.	381	820	1,941	1,985	4,217	4,453	4,848	6,541	7,734
Export value <sup>15</sup> .....	Mill. dol.	3,871	10,658	16,590	16,015	18,121	16,039	17,078	20,776	22,820
Passenger cars (new) <sup>13</sup> .....	Mill. dol.	3,871	2,852	4,642	3,932	3,928	2,867	4,208	4,876	6,027
Trucks and buses (new) <sup>14</sup> .....	Mill. dol.	636	2,305	3,267	2,977	3,247	2,642	2,130	2,479	2,786
Parts and accessories <sup>14</sup> .....	Mill. dol.	2,413	5,501	8,681	9,106	10,946	10,530	10,740	13,421	14,004
<b>VEHICLES IN USE AND RETIRED</b>										
Cars in use, total.....	Million	80.4	95.2	104.7	104.6	105.8	106.9	109.0	112.0	114.7
Under 3 years.....	Million	24.4	25.8	28.2	26.8	24.2	21.5	20.7	22.0	24.8
3-5 years.....	Million	24.9	27.0	25.2	25.5	28.8	29.9	28.8	26.8	23.9
6-8 years.....	Million	18.4	22.0	25.0	25.2	23.0	22.2	23.5	26.8	27.8
9-11 years.....	Million	7.7	13.9	14.9	14.6	16.0	17.9	18.9	17.4	17.2
12 years and over.....	Million	4.9	6.6	11.3	12.5	13.9	15.4	17.0	19.0	21.0
Average age.....	Years	5.6	6.0	6.4	6.6	6.9	7.2	7.4	7.5	7.8
Cars retired from use <sup>16</sup> .....	1,000	7,461	5,669	9,312	8,405	7,542	6,921	6,243	6,675	7,729
Trucks in use, total.....	Million	17.7	24.8	32.6	35.2	36.1	37.0	38.1	40.1	42.4
Under 3 years.....	Million	4.7	6.9	9.2	8.8	7.3	5.6	5.9	7.2	9.0
3-5 years.....	Million	4.3	5.8	7.3	8.1	9.7	10.7	9.5	8.0	6.3
6-8 years.....	Million	3.0	4.4	6.2	7.4	7.1	7.1	7.7	9.2	10.2
9-11 years.....	Million	1.9	3.2	4.0	4.4	4.9	5.7	6.5	6.2	6.2
12 years and over.....	Million	3.8	4.4	5.9	6.5	7.2	7.9	8.5	9.5	10.7
Average age.....	Years	7.3	6.9	6.9	7.1	7.5	7.8	8.1	8.2	8.1
Trucks retired from use <sup>16</sup> .....	1,000	837	908	1,916	1,732	1,519	1,459	1,491	1,602	2,100
<b>TIRES AND BATTERIES SHIPMENTS</b>										
Tires, passenger car, total <sup>16</sup> .....	Million	166.6	167.0	174.0	145.9	165.3	167.5	182.0	201.6	200.9
Radials.....	Million	2.9	61.5	90.9	83.5	108.6	115.9	133.4	156.6	164.7
Replacement.....	Million	129.6	122.5	121.9	106.9	125.3	130.5	134.0	144.6	141.5
Tires, truck and bus, total <sup>16</sup> .....	Million	25.7	27.3	39.9	31.1	35.8	33.8	36.9	40.8	41.1
Radials.....	Million	(NA)	.8	4.1	3.8	9.2	10.4	13.4	16.0	19.7
Replacement.....	Million	16.7	19.8	28.9	24.4	28.5	28.1	30.3	31.7	32.1
Batteries, total <sup>17</sup> .....	Million	46.9	52.9	69.3	61.6	65.5	64.6	69.0	74.7	74.0
Replacement automobile batteries.....	Million	37.9	39.3	53.7	50.1	53.6	54.2	56.1	59.3	58.7

NA Not available. <sup>1</sup> Based on data from U.S. Dept. of Commerce. <sup>2</sup> Includes domestic models produced in Canada. <sup>3</sup> Source: Board of Governors of the Federal Reserve System, unpublished data. Represents total auto sales data from *Ward's Automotive Reports*. Criteria by which each year's car models are grouped into the major size categories vary among those collecting data. Data shown here follow *Automotive News* classifications. Beginning 1979, cars produced in U.S. by foreign manufacturer are included in subcompact. <sup>4</sup> Excludes domestic models produced in Canada. <sup>5</sup> Excludes motorcoaches and vehicle weight (fully loaded vehicle). <sup>6</sup> Source: R. L. Polk & Company, Detroit, MI, *New Motorcycle Registrations by States*. Excludes Oklahoma; 1984, excludes New York. Reproduction prohibited without Polk permission. <sup>7</sup> Estimates by Motorcycle Industry Council Inc., Costa Mesa, CA. Includes all-terrain vehicles. Excludes mopeds/motorized bicycles. <sup>8</sup> Source: Motorcycle Industry Council, Inc., Costa Mesa, CA. Data from U.S. Dept. of Commerce. Excludes mopeds/motorized bicycles and all-terrain vehicles. <sup>9</sup> Dutiable value for customs purposes prior to 1980 thereafter, c.i.f. value. <sup>10</sup> 1970-1975, covers assembled and unassembled vehicles. <sup>11</sup> Includes rubber tires and tubes and used vehicles. <sup>12</sup> For years ending June 30. Represents vehicles failing to re-register. <sup>13</sup> Includes original equipment. Also includes exports, not shown separately. Source: The Rubber Manufacturers Association, Inc., Washington, D.C., *RMA Monthly Tire Report*. <sup>14</sup> Source: Battery Council International, Chicago, IL.

Source: Except as noted, Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *Motor Vehicle Facts and Figures*, annual; and *World Motor Vehicle Data*, annual.

## No. 1020. MOTOR-VEHICLE REGISTRATIONS, 1960 TO 1985, AND DRIVERS LICENSES, 1985, BY STATE

[In thousands, except as indicated. Motor vehicle registrations cover publicly, privately, and commercially owned vehicles. For uniformity, figures have been adjusted to a calendar-year basis as registration years in States differ; figures represent net numbers where possible, excluding re-registrations and nonresident registrations]

STATE	AUTOMOBILES, TRUCKS, AND BUSES <sup>1</sup>								MOTORCYCLES <sup>1</sup> (Incl. official) 1985, est.		DRIVERS LICENSES, 1985, est.		
	1960, total	1970, total	1975, total	1980, total	1983, total	1984, total	1985, est.		Total	Per 1,000 population <sup>2</sup>	Total <sup>3</sup>	Per cent male	
							Total	Automobiles (incl. taxis)					
								Total					Per 1,000 population <sup>2</sup>
U.S.....	73,858	108,418	132,949	155,796	163,810	166,498	170,237	130,364	546	5,472	23	158,224	62.1
AL.....	1,282	1,966	2,493	2,938	3,145	3,202	3,235	2,274	566	69	17	2,547	52.0
AK.....	81	139	226	262	350	368	382	236	453	10	19	313	56.6
AZ.....	624	1,093	1,459	1,917	2,289	2,111	2,119	1,500	471	79	25	2,334	54.1
AR.....	708	1,043	1,283	1,574	1,445	1,503	1,520	991	420	29	12	1,702	51.5
CA.....	7,799	11,901	13,891	16,873	17,767	17,965	18,284	14,274	541	715	27	17,235	62.6
CO.....	924	1,442	1,925	2,342	2,649	2,754	2,851	2,078	643	113	35	2,305	52.3
CT.....	1,107	1,733	1,949	2,147	2,305	2,366	2,422	2,263	713	77	24	2,407	51.6
DE.....	182	312	351	397	427	459	478	379	609	10	16	444	51.1
DC.....	206	257	255	268	233	231	233	214	342	5	8	377	54.9
FL.....	2,367	4,120	5,395	7,814	8,608	9,394	9,861	7,886	694	244	21	8,309	51.5
GA.....	1,512	2,584	3,211	3,818	4,208	4,460	4,806	2,979	498	113	19	4,018	51.4
HI.....	231	405	462	570	610	638	662	578	548	18	17	591	55.2
ID.....	375	488	647	834	877	940	971	562	559	49	49	683	52.1
IL.....	3,776	5,238	6,344	7,477	7,513	7,598	7,769	6,211	538	219	19	6,732	50.1
IN.....	2,046	2,818	3,315	3,826	3,852	3,950	4,046	3,014	548	135	25	3,613	51.0
IA.....	1,325	1,790	2,099	2,329	2,479	2,443	2,448	1,743	604	255	88	1,933	49.4
KS.....	1,163	1,548	1,805	2,007	2,048	2,122	2,157	1,476	602	101	41	1,702	50.5
KY.....	1,198	1,763	2,245	2,593	2,621	2,590	2,591	1,769	475	50	13	2,289	52.6
LA.....	1,177	1,742	2,188	2,779	2,877	2,958	3,015	2,074	483	58	13	2,889	53.4
ME.....	374	510	648	724	766	800	826	604	519	48	41	805	50.9
MD.....	1,155	1,872	2,423	2,803	3,011	3,193	3,322	2,769	630	70	16	2,924	51.7
MA.....	1,803	2,575	3,107	3,749	3,840	3,788	3,802	3,332	572	102	18	3,897	51.8
MI.....	3,306	4,569	5,545	6,488	6,295	6,369	6,661	5,279	581	235	26	6,443	52.2
MN.....	1,592	2,207	2,525	3,091	3,239	2,968	2,970	2,274	542	166	40	2,416	52.0
MS.....	723	1,117	1,377	1,577	1,580	1,444	1,443	1,047	401	25	10	1,804	53.3
MO.....	1,720	2,408	2,866	3,271	3,433	3,521	3,575	2,626	522	85	17	3,384	51.3
MT.....	373	485	611	690	829	895	877	396	479	29	35	472	54.9
NE.....	734	974	1,165	1,254	1,235	1,257	1,263	833	519	45	28	1,120	51.3
NV.....	175	355	464	655	730	745	755	540	577	20	21	690	53.5
NH.....	256	390	485	704	803	870	905	773	775	58	58	734	51.6
NJ.....	426	637	827	1,068	1,237	1,220	1,217	760	524	127	17	5,833	52.7
NM.....	426	637	827	1,068	1,237	1,220	1,217	760	524	47	32	842	52.0
NY.....	5,067	6,718	7,591	8,002	8,417	8,644	8,932	7,774	437	217	12	9,842	54.3
NC.....	1,720	2,826	3,690	4,532	4,603	4,369	4,417	3,190	510	68	11	4,118	51.2
ND.....	345	428	551	627	666	691	712	434	634	31	45	437	51.9
OH.....	4,087	5,974	7,179	7,771	7,768	7,894	8,017	6,621	616	271	25	7,323	51.7
OK.....	1,184	1,713	2,113	2,583	2,769	2,781	2,769	1,744	528	105	32	2,248	50.7
OR.....	919	1,369	1,628	2,081	2,121	2,183	2,228	1,599	595	83	31	2,100	52.6
PA.....	4,287	5,818	7,659	6,926	6,844	7,081	7,160	5,867	495	226	19	7,918	53.1
RI.....	341	488	583	623	598	622	642	554	572	25	26	616	51.1
SC.....	879	1,360	1,772	1,996	2,058	2,128	2,150	1,644	491	38	11	2,148	51.3
SD.....	354	426	521	601	629	643	651	411	581	38	54	490	51.6
TN.....	1,307	2,050	2,727	3,271	3,537	3,569	3,612	2,864	601	103	22	3,026	51.1
TX.....	4,457	6,893	8,396	10,475	11,693	12,172	12,642	3,681	530	307	19	11,182	52.8
UT.....	417	664	845	992	1,074	1,090	1,103	759	461	57	35	936	50.6
VT.....	152	229	287	347	367	377	387	293	548	22	41	378	52.6
VA.....	1,426	2,263	3,251	3,626	3,894	4,047	4,198	3,571	626	82	14	3,837	50.4
WA.....	1,377	2,102	2,540	3,225	3,338	3,430	3,576	2,517	571	142	32	3,050	52.4
WV.....	601	801	966	1,320	1,295	1,378	1,451	1,022	528	35	18	1,226	51.2
WI.....	1,600	2,182	2,591	2,941	3,214	3,084	3,121	2,382	499	194	41	3,197	52.0
WY.....	207	247	337	467	502	494	496	291	572	22	43	365	54.2

<sup>1</sup> Excludes vehicles owned by military services.

<sup>2</sup> Based on resident population as of July 1.

<sup>3</sup> Estimated from data reported by States for current and previous years; allowance has been made for deaths, emigration, or revocation by some States.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual; and *Drivers Licenses*, annual.

## No. 1021. MOTOR VEHICLES—REGISTRATIONS, FACTORY SALES, AND RETAIL SALES: 1950 TO 1985

[Minus sign (—) indicates decrease. For definition of average annual percent change, see Guide to Tabular Presentation. See also *Historical Statistics, Colonial Times to 1970*, series Q 148-155]

YEAR	REGISTRATIONS <sup>1</sup> (mil.)			Motor-cycle registrations <sup>1</sup> (1,000)	FACTORY SALES (1,000)			PASSENGER CARS RETAIL SALES (1,000)			AVERAGE ANNUAL PERCENT CHANGE <sup>4</sup>	
	Total cars, trucks, buses	Pas- senger cars <sup>2</sup>	Trucks and buses		Total cars, trucks, buses	Pas- senger cars	Trucks and buses <sup>3</sup>	Total	Do- mestic	Im- ports	Registra- tions <sup>4</sup>	Retail sales
1950.....	49.2	40.4	8.8	454	8,003	6,686	1,337	(NA)	(NA)	(NA)	<sup>a</sup> 7.4	(NA)
1955.....	62.7	52.1	10.6	412	9,189	7,920	1,249	7,466	7,408	58	5.0	(NA)
1960.....	73.9	61.7	12.2	574	7,869	6,675	1,194	6,641	6,142	499	3.3	-2.3
1965.....	90.4	75.3	15.1	1,382	11,057	9,306	1,752	9,332	8,763	569	4.1	7.0
1967.....	96.9	80.4	16.5	1,953	8,976	7,437	1,539	8,337	7,568	769	3.5	-5.5
1968.....	100.9	83.6	17.3	2,089	10,718	8,822	1,896	9,656	8,625	1,031	4.1	15.8
1969.....	105.1	86.9	18.2	2,316	10,147	8,224	1,923	9,583	8,464	1,118	4.2	-1.8
1970.....	108.4	89.2	19.2	2,824	8,239	6,547	1,692	8,405	7,119	1,285	3.2	-12.3
1971.....	113.0	92.7	20.3	3,344	10,638	8,585	2,053	10,250	8,611	1,568	4.2	22.0
1972.....	118.8	97.1	21.7	3,760	11,271	8,824	2,447	10,950	9,327	1,623	5.1	6.8
1973.....	125.7	102.0	23.7	4,371	12,637	9,658	2,980	11,439	9,676	1,763	5.8	4.5
1974.....	129.9	104.8	25.1	4,966	10,059	7,331	2,727	8,867	7,454	1,413	3.4	-22.5
1975.....	132.9	106.7	26.2	4,964	8,985	6,713	2,272	8,640	7,053	1,587	2.3	-2.6
1976.....	138.5	110.2	28.4	4,933	11,480	8,500	2,979	10,110	8,611	1,498	4.2	17.0
1977.....	142.1	112.3	29.8	4,881	12,642	9,201	3,441	11,185	9,109	2,076	2.6	10.6
1978.....	148.4	116.6	31.8	4,888	12,871	9,165	3,706	11,312	9,312	2,000	4.4	1.1
1979.....	151.9	118.5	33.4	5,422	11,456	8,419	3,037	10,671	8,341	2,329	2.4	-6.7
1980.....	155.8	121.6	34.2	5,694	8,067	6,400	1,667	8,979	6,581	2,398	2.6	-15.9
1981.....	158.3	123.1	35.2	5,831	7,956	6,255	1,701	8,536	6,209	2,327	1.6	-4.9
1982.....	159.6	123.7	35.9	5,754	6,955	5,049	1,906	7,982	5,759	2,223	.8	-6.5
1983.....	163.9	126.2	37.7	5,585	9,153	6,739	2,414	9,182	6,795	2,387	2.7	15.0
1984.....	166.5	127.9	38.6	5,480	10,696	7,621	3,075	10,391	7,952	2,439	1.5	13.2
1985.....	<sup>7</sup> 170.2	<sup>7</sup> 130.3	<sup>7</sup> 39.9	<sup>7</sup> 5,472	11,359	8,002	3,357	11,042	8,204	2,838	2.2	6.3

NA Not available. <sup>1</sup> Excludes Alaska and Hawaii prior to 1960. Includes publicly owned vehicles. Excludes military services' vehicles. <sup>2</sup> Includes taxis. <sup>3</sup> Includes standard equipment. <sup>4</sup> From prior year shown. <sup>5</sup> Excludes motorcycles.  
<sup>6</sup> Change from 1945. <sup>7</sup> Estimate.

Source: Registrations—U.S. Federal Highway Administration, *Highway Statistics*, annual; sales—Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *MVMA Motor Vehicle Facts and Figures*, annual.

## No. 1022. MOTOR VEHICLE OUTPUT AND TRADE IN NATIONAL INCOME ACCOUNTS: 1970 TO 1985

[In billions of dollars, except percent. Vehicle output equals final dollar sales value of new vehicles, plus net dollar value of used vehicle sales, adjusted for changes in inventories and net balance of vehicle exports and imports]

YEAR	CURRENT DOLLARS						CONSTANT (1982) DOLLARS							
	GNP <sup>1</sup>	Vehicle output			Vehicle		GNP <sup>1</sup>	Vehicle output			Vehicle			
		Total	Per- cent of GNP	Auto	Truck	Ex- port value		Im- port value	Total	Per- cent of GNP	Auto	Truck	Ex- port value	Im- port value
1970 .....	1,016	36.8	3.6	28.5	8.3	1.4	4.4	2,416	73.2	3.0	53.1	20.1	3.0	11.8
1971 .....	1,103	49.3	4.4	38.9	10.4	1.8	5.9	2,485	93.6	3.8	69.8	23.8	3.5	14.8
1972 .....	1,213	55.0	4.5	41.4	13.6	2.0	6.8	2,609	104.2	4.0	73.9	30.3	4.0	16.0
1973 .....	1,359	63.1	4.6	46.0	17.1	2.7	7.8	2,744	118.4	4.3	82.0	37.4	5.3	17.2
1974 .....	1,473	57.7	3.9	38.8	18.9	3.7	8.8	2,729	103.7	3.8	65.4	38.3	6.7	17.5
1975 .....	1,598	56.7	3.6	40.3	16.4	5.1	8.4	2,695	90.9	3.4	61.8	29.1	8.5	14.9
1976 .....	1,783	78.3	4.4	55.2	23.1	5.4	11.0	2,827	118.0	4.2	80.1	37.9	8.3	18.2
1977 .....	1,991	95.1	4.8	64.3	30.8	5.6	13.3	2,959	135.7	4.6	88.7	47.0	8.1	20.3
1978 .....	2,250	105.1	4.7	68.3	36.8	6.5	17.4	3,115	138.6	4.5	87.3	51.3	8.7	23.7
1979 .....	2,508	104.0	4.1	66.9	37.1	8.0	18.6	3,192	128.1	4.0	80.2	47.9	10.0	22.8
1980 .....	2,732	84.4	3.1	60.1	24.3	7.1	20.9	3,187	95.2	3.0	67.1	28.1	8.1	23.5
1981 .....	3,053	96.6	3.2	69.4	27.2	7.2	22.6	3,249	102.1	3.1	73.3	28.8	7.6	23.4
1982 .....	3,166	94.3	3.0	66.5	27.8	5.4	25.5	3,166	94.3	3.0	66.5	27.8	5.4	25.5
1983 .....	3,406	123.6	3.6	88.6	35.0	6.2	29.5	3,279	119.8	3.7	85.9	33.9	6.0	28.7
1984 .....	3,765	154.6	4.1	103.5	51.1	7.4	38.9	3,490	144.9	4.2	87.3	47.6	6.9	36.7
1985 .....	3,998	168.3	4.2	114.1	54.2	8.8	45.5	3,585	153.8	4.3	104.6	49.2	7.9	41.5

<sup>1</sup> For definition of gross national product (GNP), see text, section 14.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

## NO. 1023. AUTOMOBILES—FACTORY-INSTALLED EQUIPMENT: 1970 TO 1984

[Refers to model-year production. For certain items, such as air-conditioning, a significant number of units are installed on new vehicles after they leave the factory]

EQUIPMENT	UNITS INSTALLED (mil.)							PERCENT OF CARS PRODUCED						
	1970	1975	1980	1981	1982	1983	1984	1970	1975	1980	1981	1982	1983	1984
Transmission:														
Automatic.....	7.2	6.2	6.1	5.6	4.7	5.2	7.1	91.0	91.6	82.2	85.3	85.8	87.0	84.0
Manual.....	.7	.6	1.3	1.0	.8	.8	1.3	8.9	8.4	17.8	14.6	14.2	13.0	15.0
V-8.....	6.7	4.9	2.3	1.9	1.6	1.8	2.2	84.2	71.4	31.6	29.0	28.9	31.0	27.0
6-cylinder engine.....	1.2	1.3	2.7	2.3	1.7	1.7	2.2	15.7	19.6	36.0	36.0	31.1	29.3	25.0
4-cylinder engine.....	(NA)	.6	2.4	2.2	2.2	2.4	3.9	(NA)	9.0	32.4	35.0	40.0	39.7	46.0
Diesel engine.....	-	-	.4	.5	.3	.1	1.1	-	-	4.9	7.3	4.9	1.4	1.3
Power brakes.....	4.4	5.2	6.2	5.8	5.0	5.6	7.9	55.0	75.8	83.1	86.0	90.2	94.0	94.0
Power steering.....	6.4	6.1	6.2	5.7	4.9	5.4	7.5	81.2	89.7	82.9	87.1	89.7	91.0	90.0
Power windows <sup>1</sup> .....	1.3	1.6	1.6	1.7	1.8	2.3	3.3	16.7	24.1	22.3	26.6	32.5	39.0	39.6
Air-conditioning.....	4.8	4.9	5.4	5.1	4.5	4.9	6.8	60.9	73.1	72.6	78.4	81.8	82.0	83.0
Tinted glass <sup>2</sup> .....	5.5	5.5	5.9	5.6	4.8	(NA)	7.5	69.5	80.6	80.8	85.3	87.4	(NA)	90.0

- Represents zero. NA Not available. <sup>1</sup> Includes station wagon power rear windows.

<sup>2</sup> Covers windshield and other glass.

Source: Chilton Company, Radnor, PA, *Annual Statistical Issue, Automotive Industries*. (Copyright.)

## NO. 1024. RECREATIONAL VEHICLES—NUMBER AND RETAIL VALUE OF SHIPMENTS: 1970 TO 1985

YEAR	NUMBER (1,000)					RETAIL VALUE (mil. dol.)				
	Total	Motorized homes	Travel trailers	Folding camping trailers	Truck campers	Total	Motorized homes	Travel trailers	Folding camping trailers	Truck campers
1970.....	380.3	30.3	138.0	116.1	95.9	1,122	318	445	175	183
1973.....	528.8	129.0	212.3	97.7	89.8	2,322	1,153	843	160	167
1974.....	295.8	68.9	126.3	55.2	45.4	1,392	624	567	109	92
1975.....	339.6	96.6	150.6	48.1	44.3	2,320	1,251	856	101	112
1976.....	541.1	256.1	189.7	53.3	42.0	4,284	2,923	1,132	117	112
1977.....	533.9	280.2	167.9	53.9	31.9	5,327	3,876	1,229	123	99
1978.....	526.3	293.6	159.8	48.2	24.7	5,683	4,329	1,153	116	85
1979.....	307.7	172.6	90.2	31.1	13.8	3,338	2,682	725	83	48
1980.....	181.4	99.9	52.0	24.5	5.0	1,952	1,381	485	69	17
1981.....	239.1	135.2	63.8	36.0	5.1	2,775	2,019	831	105	20
1982.....	258.0	152.5	65.5	34.3	5.7	3,505	2,701	868	110	28
1983.....	358.0	223.7	90.0	37.5	6.8	6,324	5,099	1,067	122	36
1984.....	398.2	257.3	92.4	40.9	7.6	7,733	6,262	1,157	266	46
1985.....	359.2	233.5	82.9	35.9	6.9	7,029	5,724	1,122	137	46

Source: Recreation Vehicle Industry Association, Reston, VA, *RV's . . . The Family Camping Vehicle, A Year-End Report/1985*. Data also in Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *Motor Vehicle Facts and Figures*, annual.

## NO. 1025. MOTOR VEHICLE SAFETY DEFECT RECALLS, BY DOMESTIC AND FOREIGN MANUFACTURERS: 1975 TO 1985

[Covers manufacturers reporting to U.S. National Highway Traffic Administration under section 151 of National Traffic and Motor Vehicle Safety Act of 1966, as amended]

MANUFACTURER	Unit	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Motor vehicles:												
Total recall campaigns <sup>1</sup> .....	Number.....	217	209	246	271	275	167	156	135	140	164	173
Domestic.....	Number.....	190	169	195	199	218	129	128	107	110	127	137
Foreign.....	Number.....	27	40	51	72	57	38	28	28	30	37	36
Total vehicles recalled.....	1,000.....	2,109	3,492	12,923	9,063	8,919	4,863	9,405	1,914	6,114	7,220	5,629
Domestic.....	1,000.....	1,829	3,019	10,693	7,921	6,997	3,939	79	1,401	3,090	6,283	4,995
Vehicles recalled by 4 leading auto manufacturers.....	1,000.....	1,602	2,854	10,331	7,670	6,989	3,730	7,247	1,324	3,021	6,148	4,811
Foreign.....	1,000.....	280	474	2,230	1,141	1,922	924	2,026	513	3,024	937	634
Motor vehicle tires:												
Recall campaigns <sup>1</sup> .....	Number.....	22	28	35	31	23	24	25	17	21	16	19
Tires recalled.....	1,000.....	72	464	471	14,686	425	7,070	125	131	95	81	28

<sup>1</sup> A recall campaign is the notification to the Secretary of the U.S. Dept. of Transportation and to owners, purchasers, and dealers, of a motor vehicle safety defect.

Source: U.S. National Highway Traffic Safety Administration, *Motor Vehicles Defect Recall Campaigns*, annual.

## No. 1026. MOTOR VEHICLE ACCIDENTS—NUMBER AND DEATHS: 1970 TO 1985

[See also *Historical Statistics, Colonial Times to 1970*, series Q 208 and Q 224-232]

ITEM	Unit	1970	1972 <sup>1</sup>	1975	1979	1980	1981	1982	1983	1984	1985
Motor vehicle accidents <sup>2</sup>	Million	16.0	17.0	16.5	18.1	17.9	18.0	18.1	18.3	18.8	(NA)
Cars	Million	23.5	24.5	22.5	22.9	22.8	22.9	23.2	23.5	25.2	(NA)
Trucks	Million	3.2	3.5	3.8	5.4	5.5	5.6	5.8	5.8	6.3	(NA)
Motorcycles	1,000	305	343	372	480	560	540	550	530	570	(NA)
Motor vehicle deaths within 1 yr. <sup>3</sup>	1,000	54.6	56.3	45.9	53.5	53.2	51.4	45.8	44.4	46.2	45.7
Noncollision accidents	1,000	15.4	15.8	12.7	14.8	14.7	14.2	12.6	12.2	12.6	13.2
Collision accidents:											
With other motor vehicles	1,000	23.2	23.9	19.5	23.1	23.0	22.2	19.8	19.2	20.3	20.0
With pedestrians	1,000	9.9	10.3	8.4	9.8	9.7	9.4	8.4	8.2	8.6	8.3
With fixed objects	1,000	3.8	3.9	3.1	3.7	3.7	3.6	3.2	3.1	3.0	2.5
Deaths within 30 days <sup>4</sup>	1,000	52.6	54.6	44.5	51.1	51.1	49.3	43.9	42.6	44.3	43.8
Vehicle occupants	1,000	40.6	41.4	32.8	37.2	36.8	35.5	31.2	30.6	31.8	31.5
Pedestrians	1,000	9.0	9.2	7.5	8.1	8.1	7.8	7.3	6.8	7.0	6.0
Motorcyclists <sup>5</sup>	1,000	2.3	3.0	3.2	4.9	5.1	4.9	4.5	4.3	4.6	4.6
Bicyclists	1,000	.8	1.0	1.0	.9	1.0	.9	.9	.8	.8	.9
Traffic death rates: <sup>6</sup>											
Per 100,000 resident population	Rate	25.8	26.2	20.7	22.8	22.6	21.5	19.0	18.2	18.7	18.3
Per 100,000 registered vehicles	Rate	47.3	44.5	32.3	32.0	31.6	30.0	26.6	25.1	25.7	24.9
Per 100 million vehicle miles	Rate	4.7	4.3	3.4	3.3	3.3	3.2	2.8	2.8	2.6	2.5
Per 100,000 licensed drivers	Rate	47.2	46.1	34.3	35.7	35.2	34.1	29.2	27.6	28.5	27.7
Motor vehicle accidents <sup>7</sup>	Million	22.1	24.9	24.9	26.7	24.1	28.3	26.5	29.4	30.9	32.5
Injuries <sup>8</sup>	1,000	4,983	5,190	4,978	5,681	5,230	5,019	4,490	4,665	4,650	5,044
Economic loss <sup>9</sup>	Bl. dol	23.5	28.7	36.1	56.4	57.1	58.7	60.2	62.7	69.0	76.0

NA Not available. <sup>1</sup> Represents peak year for deaths from motor vehicle accidents. <sup>2</sup> Covers only accidents occurring on the road. <sup>3</sup> Deaths that occur within one year of accident. Includes collision categories not shown separately. <sup>4</sup> Within 30 days of accident. Source: U.S. National Highway Traffic Safety Administration, unpublished data from Fatal Accident Reporting System. <sup>5</sup> Includes motor scooters and motorized bicycles (mopeds). <sup>6</sup> Based on 30-day definition of traffic deaths. <sup>7</sup> Source: Insurance Information Institute, New York, NY, *Insurance Facts*. Estimates based on official reports from a representative cross-section of States. Includes all motor vehicle accidents on and off the road and all injuries regardless of length of disability. <sup>8</sup> Wage loss; legal, medical, hospital, and funeral expenses; insurance administrative costs; and property damage. <sup>9</sup> Source: Except as noted, National Safety Council, Chicago, IL, *Accident Facts*, annual. (Copyright.)

## No. 1027. DEATHS FROM MOTOR VEHICLE ACCIDENTS, BY STATE: 1970 TO 1983

[Data differ from table 1026 because data are based on date of death, not date of accident. Data reflect State where death occurred. Includes deaths of nonresidents of U.S. Beginning 1980, deaths classified according to the ninth revision of the *International Classification of Diseases*, for earlier years classified according to the revision in use at the time; see text, section 2. Data based on Vital Registration System, see Appendix III. For composition of regions, see fig. 1, inside front cover]

REGION, DIVISION, AND STATE	1970	1972 <sup>1</sup>	1975	1980	1982	1983	DIVISION, AND STATE	1970	1972 <sup>1</sup>	1975	1980	1982	1983
U.S.	54,845	56,528	46,032	53,476	46,020	44,695	S.A.	9,796	10,600	8,358	9,767	8,487	8,651
Region:							DE	158	130	129	164	131	126
Northeast	8,850	8,982	7,431	8,255	6,920	6,651	MD	808	852	686	822	679	676
Midwest	14,829	14,670	11,293	12,244	9,644	9,411	OC	140	100	91	79	71	95
South	20,792	21,964	18,029	21,014	19,412	18,819	VA	1,251	1,256	1,069	1,111	927	944
West	10,574	10,902	9,279	11,963	10,044	9,814	WV	581	578	499	583	485	466
N.E.	2,095	2,180	1,953	2,246	1,747	1,742	NC	1,801	2,026	1,560	1,588	1,371	1,298
ME	288	252	235	264	185	237	SC	1,070	1,148	837	895	759	849
NH	182	172	155	192	182	179	FL	1,825	1,940	1,420	1,558	1,288	1,365
VT	116	126	124	131	106	97	GA	2,181	2,570	2,067	2,867	2,776	2,819
MA	918	1,042	895	933	711	731	E.S.C.	4,850	4,972	3,881	3,995	3,723	3,793
RI	143	144	140	142	122	117	KY	1,081	1,114	885	885	857	793
CT	448	444	404	584	441	381	TN	1,525	1,526	1,280	1,280	1,172	1,158
M.A.	6,755	6,812	5,478	6,009	5,173	4,909	AL	1,267	1,358	1,087	1,054	966	1,043
NY	3,117	3,140	2,277	2,717	2,206	2,146	MS	947	976	629	796	777	731
NJ	1,289	1,352	1,099	1,130	1,086	980	W.S.C.	6,146	6,392	5,790	7,252	7,153	6,445
PA	2,349	2,320	2,102	2,162	1,881	1,783	AR	595	750	577	607	585	585
E.N.C.	9,623	9,514	7,361	8,000	6,485	6,302	LA	1,194	1,136	993	1,261	1,118	1,004
OH	2,488	2,336	1,852	1,976	1,594	1,552	OK	787	792	748	1,006	1,115	902
IN	1,587	1,578	1,139	1,213	1,036	1,070	TX	3,570	3,714	3,472	4,378	4,335	3,854
IL	2,267	2,218	1,816	1,985	1,591	1,554	Mt.	3,549	3,764	3,206	4,071	3,488	3,340
MI	2,172	2,236	1,811	1,817	1,451	1,368	MT	340	408	294	338	258	310
WI	1,109	1,148	943	1,009	813	758	ID	320	324	291	345	261	285
W.N.C.	5,006	5,156	3,932	4,244	3,159	3,109	WY	210	196	210	246	214	174
MN	1,028	1,052	798	900	603	582	CO	687	746	621	793	706	687
IA	946	904	714	682	496	512	NM	568	568	556	617	608	569
MO	1,479	1,500	1,105	1,239	936	966	AZ	782	858	713	983	791	728
ND	194	206	183	184	176	140	UT	354	354	285	370	332	310
SD	240	312	216	238	185	184	NV	278	290	236	388	318	299
NE	435	504	385	406	266	275	Pac.	7,025	7,138	6,073	7,982	6,556	6,474
KS	684	678	531	615	517	440	WA	902	836	804	1,048	808	765
							OR	739	774	582	698	549	576
							CA	5,114	5,300	4,414	5,860	4,948	4,848
							AK	107	64	120	91	95	139
							HI	163	164	153	195	156	146

<sup>1</sup> Represents peak year for deaths from motor vehicle accidents.Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual; and unpublished data.

# **No. 1028. FATAL MOTOR-VEHICLE ACCIDENTS—NUMBER OF ACCIDENTS AND FATALITIES, BY TYPE OF VEHICLE: 1980 TO 1984**

[Based on data from the Fatal Accident Reporting System]

TYPE OF VEHICLE	ACCIDENTS <sup>1</sup>					OCCUPANT FATALITIES				
	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984
<b>Total <sup>2</sup></b> .....	<b>45,284</b>	<b>44,000</b>	<b>39,092</b>	<b>37,976</b>	<b>39,631</b>	<b>41,927</b>	<b>40,424</b>	<b>35,646</b>	<b>34,843</b>	<b>36,284</b>
Passenger cars <sup>3</sup> .....	31,550	30,828	27,548	26,698	27,726	27,449	26,645	23,330	22,979	23,609
Mini-compact.....	3,263	3,635	3,559	3,753	3,992	2,966	3,279	3,194	3,278	3,463
Subcompact.....	4,875	5,266	4,649	4,884	5,259	4,158	4,432	3,881	4,000	4,333
Compact.....	1,118	1,363	1,565	1,936	2,673	927	1,052	1,210	1,499	2,081
Intermediate.....	5,224	5,698	5,305	5,352	5,978	3,878	4,107	3,919	3,985	4,285
Full size.....	7,026	6,653	5,691	5,361	5,194	4,831	4,245	3,651	3,489	3,266
Largest size.....	10,817	9,934	8,343	7,524	7,328	6,746	5,955	4,779	4,470	4,159
Unknown.....	5,134	4,596	3,863	3,284	2,908	3,943	3,575	2,896	2,258	2,022
Motorcycles.....	4,879	4,671	4,201	4,045	4,377	4,961	4,746	4,270	4,104	4,430
Moped, mini bike.....	180	157	177	158	172	183	160	183	161	177
Light trucks <sup>4</sup> .....	10,841	10,301	9,697	9,347	9,984	6,566	6,137	5,590	5,395	5,710
Pickup.....	8,796	8,366	7,842	7,696	8,310	5,463	5,097	4,677	4,578	4,870
Van.....	2,009	1,961	1,722	1,615	1,762	1,000	958	814	712	762
Medium trucks.....	1,078	871	668	672	680	285	235	154	172	153
Heavy trucks.....	4,038	4,121	3,754	3,868	4,183	976	897	789	807	920
Single-unit <sup>4</sup> .....	377	333	283	323	438	89	57	52	60	83
Two-unit <sup>5</sup> .....	3,396	3,555	3,072	3,144	3,343	812	782	663	648	757
Multi-unit <sup>5</sup> .....	148	150	129	168	180	41	34	25	36	35
Buses.....	329	340	288	305	319	46	56	35	53	46

<sup>1</sup> Each accident involving multiple types of vehicles is recorded in each category; therefore, the aggregate of all types will exceed the total number of accidents. <sup>2</sup> Includes other types and unknown, not shown separately. <sup>3</sup> Mini-compact wheel base less than 95 in.; subcompact, 95 in. to 99 in.; compact, 100 in. to 104 in.; intermediate, 105 in. to 109 in.; full size, 110-114 in.; and largest size greater than 115 in. <sup>4</sup> Gross vehicle weight greater than 26,000 lbs. <sup>5</sup> Tractor-trailer combination.

Source: U.S. National Highway Traffic Safety Administration, *Fatal Accident Reporting System*, annual.

# **No. 1029. HIGHWAY MILEAGE, VEHICLE MILES OF TRAVEL, ACCIDENTS, AND FATALITIES, 1975 TO 1984, AND BY TYPE OF HIGHWAY SYSTEM, 1984**

YEAR AND TYPE OF SYSTEM	Highway mileage (1,000)	Vehicle miles of travel (bil.)	Daily vehicle miles per mile	FATAL ACCIDENTS		NONFATAL INJURY ACCIDENTS		FATALITIES <sup>2</sup>	
				Number	Rate <sup>1</sup>	Number (1,000)	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
<b>1975, total</b> .....	<b>3,838</b>	<b>1,330</b>	<b>1,059</b>	<b>39,993</b>	<b>3.01</b>	<b>1,861</b>	<b>140</b>	<b>39,993</b>	<b>3.01</b>
<b>1980, total</b> .....	<b>3,857</b>	<b>1,530</b>	<b>1,084</b>	<b>45,271</b>	<b>2.98</b>	<b>2,008</b>	<b>132</b>	<b>51,077</b>	<b>3.36</b>
<b>1982, total</b> .....	<b>3,866</b>	<b>1,592</b>	<b>1,128</b>	<b>38,999</b>	<b>2.45</b>	<b>1,966</b>	<b>124</b>	<b>43,846</b>	<b>2.75</b>
<b>1983, total</b> .....	<b>3,880</b>	<b>1,649</b>	<b>1,165</b>	<b>37,966</b>	<b>2.30</b>	<b>2,005</b>	<b>122</b>	<b>42,596</b>	<b>2.58</b>
<b>1984, total</b> .....	<b>3,892</b>	<b>1,717</b>	<b>1,205</b>	<b>39,622</b>	<b>2.31</b>	<b>2,137</b>	<b>124</b>	<b>44,372</b>	<b>2.58</b>
Urban.....	674	998	4,047	18,004	1.80	1,487	149	19,548	1.96
Rural.....	3,218	719	610	21,618	3.01	650	90	24,824	3.45
Interstate.....	43	352	22,223	3,734	1.06	134	38	4,271	1.21
Urban.....	11	204	52,398	1,897	.93	97	48	2,131	1.05
Rural.....	33	149	12,421	1,837	1.24	37	25	2,140	1.44
Noninterstate.....	3,848	1,365	989	35,888	2.63	2,003	147	40,101	2.94
Urban.....	663	794	3,273	16,107	2.03	1,390	175	17,417	2.19
Rural.....	3,185	570	489	19,781	3.47	613	107	22,684	3.98
Federal-aid highway system, total.....	836	1,385	4,513	30,229	2.18	1,426	103	34,034	2.46
Urban.....	183	808	12,085	14,262	1.77	1,041	129	15,527	1.92
Rural.....	655	577	2,405	15,967	2.77	386	67	18,507	3.21
Interstate.....	43	352	22,223	3,734	1.06	134	38	4,271	1.21
Other primary arterial.....	257	507	5,392	12,459	2.46	485	96	14,339	2.83
Urban.....	32	230	19,721	3,902	1.70	288	125	4,266	1.86
Rural.....	225	277	3,362	8,557	3.09	197	71	10,073	3.64
Urban (arterial and collector).....	140	374	7,281	8,463	2.26	656	175	9,130	2.44
Secondary (collector).....	398	152	1,041	5,573	3.68	151	100	6,294	4.15
Non-Federal-aid highway system, total.....	3,053	332	297	9,393	2.83	711	214	10,338	3.11
Urban.....	491	190	1,058	3,742	1.97	446	235	4,021	2.12
Rural.....	2,563	142	151	5,651	3.98	265	186	6,317	4.45
Collector.....	353	72	555	2,027	2.82	91	127	2,231	3.11
Urban.....	20	20	2,760	339	1.71	20	103	362	1.82
Rural.....	334	52	426	1,688	3.25	71	137	1,869	3.59
Local.....	2,089	233	236	6,653	2.86	597	257	7,314	3.14
Urban.....	463	147	966	2,814	1.92	406	277	3,021	2.06
Rural.....	2,226	86	106	3,839	4.46	191	222	4,293	4.99

<sup>1</sup> Rate per 100 million vehicle miles of travel. <sup>2</sup> Represents fatalities occurring within 30 days of accident. Excludes nontraffic accidents which, for example, occur outside the rights-of-way or other boundaries of roads that are open for public use.

Source: U.S. Federal Highway Administration, *Fatal and Injury Accident Rates on Public Roads in the United States*, annual.

**NO. 1030. LICENSED DRIVERS, FATAL MOTOR-VEHICLE ACCIDENTS, AND ALCOHOL INVOLVEMENT,  
BY AGE OF DRIVER: 1985**

ITEM	Unit	Total	AGE OF DRIVER							
			16-17 years	18-21 years	22-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65 years and over
Licensed drivers <sup>1</sup>	1,000.....	158,224	4,234	13,552	12,172	39,785	29,891	20,702	19,291	16,486
Percent distribution.....	Percent.....	100.0	2.7	8.6	7.7	25.1	18.9	13.1	12.2	11.7
Licensed drivers involved in fatal accidents	Number.....	<sup>2</sup> 57,844	2,790	9,062	6,574	15,246	8,887	5,148	4,107	4,472
Percent distribution.....	Percent.....	<sup>2</sup> 100.0	4.8	15.7	11.4	26.4	15.4	8.9	7.1	7.7
Drinking drivers fatal accidents <sup>3</sup>	Number.....	<sup>2</sup> 19,174	650	3,702	2,987	6,163	2,652	1,212	739	478
Percent distribution.....	Percent.....	<sup>2</sup> 100.0	3.4	19.3	15.6	32.1	13.8	6.3	3.9	2.5

<sup>1</sup> Source: U.S. Federal Highway Administration, *Selected Highway Statistics and Charts*, annual. <sup>2</sup> Includes ages unknown and less than 16 years old. <sup>3</sup> Estimate based on 15 "good" reporting States in the *Fatal Accident Reporting System*.

Source: Except as noted, U.S. National Highway Traffic Safety Administration, unpublished data from the *Fatal Accident Reporting System*.

**NO. 1031. MOTOR VEHICLE TRAVEL, BY TYPE OF VEHICLE, AND SPEED: 1970 TO 1984**

[Travel in billions of vehicle-miles, except as indicated. Travel estimates based on automatic traffic recorder data. Speed trend data for 1970-1975 were collected by several State highway agencies, normally during summer months; beginning Oct. 1975 all States have monitored speeds at locations on several highway systems as part of 55 mile per hour Speed Limit Monitoring Program. See also *Historical Statistics, Colonial Times to 1970*, series Q 199-207]

YEAR	VEHICLE-MILES OF TRAVEL (bil.)				AVG. MILES PER VEHICLE (1,000)			MOTOR VEHICLE SPEED <sup>2</sup>				
	Total	Cars <sup>1</sup>	Buses	Trucks	Passenger vehicles		Trucks	Vehicles recorded (1,000)	Avg. speed (miles per hour)	Percent of vehicles exceeding—		
					Cars <sup>1</sup>	Buses				55 m.p.h.	60 m.p.h.	65 m.p.h.
1970.....	1,121	901	5.0	215	9.8	13.3	11.5	200	63.8	87	69	44
1972.....	1,268	1,004	5.1	260	10.0	12.6	12.2	160	64.9	89	71	49
1973.....	1,309	1,037	5.0	267	9.8	11.7	11.5	181	65.0	89	72	50
1974.....	1,286	1,013	5.1	268	9.2	11.3	10.9	203	57.6	65	29	9
1975.....	1,330	1,051	5.1	275	9.4	11.1	10.6	102	57.6	68	27	7
1976.....	1,412	1,098	5.8	308	9.5	12.0	11.1	515	58.2	69	32	10
1977.....	1,477	1,141	5.9	330	9.6	12.0	11.1	500	58.8	74	35	10
1978.....	1,548	1,194	6.1	348	9.8	12.1	11.0	468	58.8	74	36	10
1979.....	1,529	1,163	6.1	360	9.3	11.7	10.8	506	58.3	72	32	9
1980.....	1,521	1,130	6.4	385	8.9	12.1	11.4	667	57.5	66	25	7
1981.....	1,556	1,125	6.5	425	8.7	12.0	12.3	3,048	57.9	68	30	9
1982.....	1,592	1,192	6.6	394	9.2	11.8	11.2	4,895	59.0	73	40	14
1983.....	1,658	1,230	6.7	421	9.3	11.5	11.4	7,656	59.1	74	41	15
1984.....	1,717	1,266	6.7	444	9.5	11.5	11.7	6,664	59.4	75	43	17

<sup>1</sup> Includes taxicabs and motorcycles. <sup>2</sup> For 1970-1979, based on free flow speed of vehicles recorded on level, straight sections of rural interstate highways during off-peak hours; beginning 1980, based on all vehicles on rural interstate highways. Beginning 1976, for year ending Sept. 30.

**NO. 1032. DOMESTIC MOTOR FUEL CONSUMPTION, BY TYPE OF VEHICLE: 1970 TO 1984**

[Comprises all fuels (gas, diesel, or other fuels) used for propulsion of vehicles under State motor fuels laws. Excludes Federal purchases for military use. Minus sign (-) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series Q 156-162]

YEAR	FUEL CONSUMPTION					AVERAGE FUEL CONSUMPTION PER VEHICLE (gal.)				AVERAGE MILEAGE PER GALLON			
	All vehicles (bil. gal.)	Avg. annual percent change <sup>1</sup>	Cars <sup>2</sup> (bil. gal.)	Buses <sup>3</sup> (bil. gal.)	Trucks <sup>4</sup> (bil. gal.)	All vehicles	Cars <sup>2</sup>	Buses <sup>3</sup>	Trucks <sup>4</sup>	All vehicles	Cars <sup>2</sup>	Buses <sup>3</sup>	Trucks <sup>4</sup>
1970.....	92.3	5.4	65.8	.9	25.6	830	722	2,491	1,365	12.14	13.58	5.34	8.39
1972.....	105.1	6.7	73.5	.9	30.7	859	730	2,165	1,446	12.07	13.67	5.80	8.59
1973.....	110.5	5.2	78.0	.8	31.6	851	736	1,991	1,361	11.85	13.29	5.66	8.45
1974.....	106.3	-3.8	74.2	.9	31.2	798	676	1,919	1,268	12.09	13.65	5.90	8.57
1975.....	109.0	2.5	76.5	.9	31.6	790	685	1,937	1,227	12.20	13.74	5.75	8.68
1976.....	115.7	6.2	78.8	1.0	35.9	807	685	2,015	1,292	12.20	13.93	5.98	8.58
1977.....	119.6	3.4	80.7	1.0	38.0	804	680	2,002	1,284	12.34	14.15	5.98	8.68
1978.....	125.1	4.6	83.8	1.0	40.3	813	688	2,041	1,270	12.38	14.26	5.95	8.64
1979.....	122.1	-2.4	80.2	1.0	40.9	765	638	1,966	1,225	12.52	14.49	5.97	8.82
1980.....	115.0	-5.8	73.7	1.1	40.1	711	579	2,034	1,194	13.23	15.32	5.95	9.58
1981.....	114.5	-4	71.7	1.1	41.6	697	555	2,019	1,209	13.60	15.68	5.92	10.21
1982.....	113.4	-9	72.8	1.1	39.4	686	583	2,003	1,122	14.05	16.25	5.93	10.00
1983.....	116.0	2.3	73.2	1.1	41.7	685	555	1,949	1,123	14.29	16.81	5.92	10.11
1984.....	118.7	2.4	74.3	1.1	43.3	689	557	1,954	1,138	14.46	17.05	5.90	10.25

<sup>1</sup> From prior year shown. For 1970, change from 1965. <sup>2</sup> Includes taxicabs and motorcycles. <sup>3</sup> Includes school buses.

<sup>4</sup> Includes combinations.

Source of tables 1031 and 1032: U.S. Federal Highway Administration, *Highway Statistics*, annual.

## NO. 1033. VOLUME AND CHARACTERISTICS OF TRAVEL: 1983

[Covers only travel day trips regardless of trip length. VMT=Vehicle-miles of travel; PMT=Person-miles of travel]

CHARACTERISTIC	HOUSEHOLD			PERSON		PERCENT DISTRIBUTION			
	Number of trips (mil.)	VMT (bil.)	Average trip length (miles)	Number of trips (mil.)	PMT (bil.)	Household		Persons	
						Number of trips	VMT	Number of trips	PMT
<b>Total</b> .....	<b>126,874</b>	<b>1,002,139</b>	<b>7.9</b>	<b>224,385</b>	<b>1,946,662</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Purpose:</b>									
Trip to work.....	35,375	302,185	8.5	45,626	391,544	27.9	30.3	20.4	20.2
Work-related business.....	3,696	42,223	11.4	15,283	115,605	2.9	4.2	2.4	5.9
Shopping.....	25,363	133,823	5.2	40,655	219,112	20.0	13.3	18.1	11.2
Other family or personal business.....	23,245	155,131	6.7	36,158	256,929	18.3	15.5	16.1	13.2
School/church.....	7,444	40,990	5.5	26,486	129,953	5.9	4.1	11.8	6.7
Visit friends or relatives.....	12,543	135,801	10.8	24,743	283,520	9.9	13.6	11.0	14.6
Other social or recreational.....	15,416	133,417	8.7	35,457	302,145	12.2	13.3	15.8	15.5
Vacation.....	187	21,317	114.0	630	155,551	.1	2.1	.3	8.0
Other.....	3,605	37,252	7.2	9,147	92,303	2.8	3.6	4.1	4.7
<b>Means of transportation:</b>									
Automobiles.....	95,497	742,301	9.8	139,387	1,181,626	75.3	74.2	62.1	60.8
Station wagons.....	10,920	81,471	7.5	16,194	139,253	8.6	8.1	7.2	7.2
Passenger van.....	2,803	21,401	7.6	4,746	51,269	2.2	2.1	2.1	2.6
Pickup truck <sup>1</sup> .....	13,851	122,504	8.8	18,372	176,926	10.9	12.2	8.2	9.1
Other.....	<sup>2</sup> 3,803	<sup>2</sup> 34,462	9.0	<sup>2</sup> 45,886	<sup>2</sup> 397,588	<sup>2</sup> 3.0	<sup>2</sup> 3.4	<sup>2</sup> 20.4	<sup>2</sup> 20.4

<sup>1</sup> Excludes pickup with camper and other trucks. <sup>2</sup> Includes other vans, pickups with campers, other trucks, motorized campers, motorcycles, motorized bicycles and other privately owned vehicles not listed elsewhere. <sup>3</sup> Includes other vans, motorized campers, motorcycles, trains, streetcars, elevated rail, airplane, commercial taxis, buses, school buses, bicycles, walking and other forms of transportation not included elsewhere.

## NO. 1034. FREQUENCY OF SEAT BELT AND MOTORCYCLE HELMET USAGE, BY SEX: 1983

[Covers persons 5 years old and over]

SEX	NUMBER (1,000)					PERCENT				
	Total <sup>1</sup>	Wearing				Total <sup>1</sup>	Wearing			
		Always	Most of the time	Sometimes	Never		Always	Most of the time	Sometimes	Never
<b>SEAT BELTS</b>										
<b>All persons</b> .....	<b>184,139</b>	<b>31,656</b>	<b>17,800</b>	<b>48,184</b>	<b>85,876</b>	<b>100.0</b>	<b>17.2</b>	<b>9.7</b>	<b>25.2</b>	<b>48.6</b>
Male.....	90,180	15,988	8,508	23,003	42,966	100.0	17.1	9.4	25.5	47.7
Female.....	93,979	16,268	9,292	25,181	42,910	100.0	17.3	9.9	26.8	45.7
<b>HELMETS</b>										
<b>All persons</b> .....	<b>2,952</b>	<b>1,929</b>	<b>281</b>	<b>256</b>	<b>459</b>	<b>100.0</b>	<b>65.3</b>	<b>9.5</b>	<b>8.7</b>	<b>15.6</b>
Male.....	2,119	1,367	257	219	249	100.0	64.5	12.1	10.3	11.8
Female.....	833	562	24	37	210	100.0	67.5	2.9	4.4	25.2

<sup>1</sup> Includes "unknown" not shown separately.

Source of tables 1033 and 1034: U.S. Federal Highway Administration, unpublished data based on the Nationwide Personal Transportation Survey.

## NO. 1035. HOUSEHOLD MOTOR VEHICLES, MILES DRIVEN, AND EXPENDITURES, BY HOUSEHOLD CHARACTERISTIC: 1985

[Preliminary. Household vehicles include all motorized-vehicles used for personal transportation, excluding motorcycles, mopeds, large trucks, and buses. The reporting unit for 1985 is all households which owned a vehicle at any time during 1985. Based on the Residential Transportation Energy Consumption Survey, subject to sampling variability]

HOUSEHOLD CHARACTERISTIC	Households with motor vehicles (mil.)	VEHICLES		MILES DRIVEN		MOTOR FUEL EXPENDITURES	
		Number (mil.)	Number per household	Total (bil.)	Number per household	Total (bil. dol.)	Average per household
<b>Total</b> .....	<b>77.7</b>	<b>137.3</b>	<b>1.8</b>	<b>1,353</b>	<b>17,402</b>	<b>99.1</b>	<b>\$1,274</b>
<b>North</b> .....	<b>15.0</b>	<b>24.8</b>	<b>1.7</b>	<b>248</b>	<b>16,476</b>	<b>17.6</b>	<b>1,169</b>
<b>Midwest</b> .....	<b>19.5</b>	<b>34.1</b>	<b>1.7</b>	<b>327</b>	<b>16,734</b>	<b>24.7</b>	<b>1,266</b>
<b>South</b> .....	<b>27.0</b>	<b>48.5</b>	<b>1.8</b>	<b>485</b>	<b>17,991</b>	<b>35.7</b>	<b>1,321</b>
<b>West</b> .....	<b>16.1</b>	<b>29.8</b>	<b>1.8</b>	<b>292</b>	<b>16,086</b>	<b>21.0</b>	<b>1,304</b>
<b>Family income in 1985:</b>							
Less than \$5,000.....	3.7	4.4	1.2	34	9,176	2.8	749
\$5,000-\$9,999.....	9.7	12.5	1.3	98	10,094	7.8	811
\$10,000-\$14,999.....	10.7	15.8	1.5	149	13,948	11.5	1,068
\$15,000-\$19,999.....	9.7	15.6	1.6	141	14,599	10.5	1,085
\$20,000-\$24,999.....	9.5	16.9	1.8	165	17,411	12.2	1,286
\$25,000-\$34,999.....	14.7	28.2	1.9	289	19,741	21.0	1,434
\$35,000 or more.....	19.8	43.7	2.2	477	24,069	33.3	1,679

Source: U.S. Energy Information Administration, *Residential Transportation Energy Consumption Survey, Consumption Patterns of Household Vehicles*, 1985.

### NO. 1036. HOUSEHOLD MOTOR VEHICLE TRANSPORTATION, BY VEHICLE MODEL YEAR: 1985

[Preliminary. Household vehicles include all motorized vehicles used for personal transportation, excluding motorcycles, mopeds, large trucks, and buses. The reporting unit for 1985 is all households which owned a vehicle at any time during 1985. Based on the Residential Transportation Energy Consumption Survey; subject to sampling variability]

HOUSEHOLD CHARACTERISTICS	VEHICLES (millions)					MILES PER GALLON				
	Total	Model year				Average	Model year			
		1973 and earlier	1974 to 1978	1979 to 1982	1983 and later		1973 and earlier	1974 to 1978	1979 to 1982	1983 and later
Total.....	137.3	26.9	43.3	37.8	28.7	16.1	13.4	13.8	17.9	19.3
Northeast.....	24.8	3.0	8.1	7.6	6.1	17.0	13.6	14.0	18.8	20.2
Midwest.....	34.1	6.4	11.4	9.0	7.0	15.6	12.6	13.2	17.6	19.1
South.....	48.5	9.2	15.0	13.8	10.5	15.8	12.9	13.5	17.4	18.9
West.....	29.8	8.3	8.9	7.3	5.1	16.5	14.4	15.0	18.3	19.2
Family income in 1985:										
Less than \$5,000.....	4.4	1.4	1.7	.7	.6	14.2	12.5	13.7	17.5	15.6
\$5,000-\$9,999.....	12.5	4.3	4.4	2.4	1.4	14.6	13.3	12.7	16.8	19.9
\$10,000-\$14,999.....	15.8	4.4	5.8	3.8	1.8	15.2	13.4	13.8	17.5	18.9
\$15,000-\$19,999.....	15.8	3.5	5.7	3.9	2.6	15.7	12.9	13.4	18.1	20.4
\$20,000-\$24,999.....	16.9	3.1	5.5	4.7	3.4	16.0	13.3	14.0	17.9	18.9
\$25,000-\$34,999.....	28.2	4.5	9.2	8.5	5.9	16.2	13.2	14.0	18.2	19.0
\$35,000 or more.....	43.7	5.7	11.0	13.7	13.1	17.1	13.9	14.3	17.9	19.4

Source: U.S. Energy Information Administration, *Residential Transportation Energy Consumption Survey, Consumption Patterns of Household Vehicles, 1985*.

### NO. 1037. DOMESTIC MOTOR GASOLINE SUPPLY: 1973 TO 1986

(In 1,000 barrels per day, except as noted)

YEAR	SUPPLY <sup>1</sup>			Pro-duction	Net im-ports	Stocks <sup>2</sup> (mil. bbls.)	YEAR AND MONTH	SUPPLY <sup>1</sup>			Pro-duction	Net im-ports	Stocks <sup>2</sup> (mil. bbls.)
	Total	Unleaded						Total	Unleaded				
		Total	Per-cent						Total	Per-cent			
1973, avg	6,674	(NA)	(NA)	6,535	130	209							
1974, avg	6,537	(NA)	(NA)	6,360	202	218							
1975, avg	6,675	(NA)	(NA)	6,520	182	235							
1976, avg	6,878	1,508	21.6	6,841	128	231	1985:						
1977, avg	7,177	1,976	27.5	7,033	215	258	March.....	6,664	4,202	63.1	6,072	478	219
1978, avg	7,412	2,521	34.0	7,169	189	238	June.....	6,997	4,482	84.1	6,780	389	218
1979, avg	7,034	2,798	39.8	6,852	181	237	Sept.....	6,829	4,357	65.7	6,299	308	223
1980, avg	6,579	3,067	46.6	6,506	139	261	Dec.....	6,792	4,561	67.1	6,651	368	223
1981, avg	6,588	3,284	49.5	6,405	155	253							
1982, avg	6,539	3,409	52.1	6,338	177	235	1986:						
1983, avg	6,622	3,647	55.1	6,340	237	222	March <sup>a</sup> .....	6,970	4,706	67.5	6,060	211	220
1984, avg	6,683	3,887	58.6	6,453	293	243	June <sup>a</sup> .....	7,200	4,934	68.5	7,102	368	233
1985, avg	6,831	4,406	64.5	6,419	371	223	Sept. <sup>a</sup> .....	6,857	4,800	70.0	6,900	249	235

NA Not available. <sup>1</sup> Production plus net imports less net increase in primary stocks. <sup>2</sup> End of year or month, includes motor gasoline blending components. <sup>3</sup> Preliminary.

Source: U.S. Energy Information Administration, *Monthly Energy Review*, June 1986, and earlier issues.

### NO. 1038. GASOLINE RETAIL PRICES—SELECTED COUNTRIES: 1973 TO 1985

(In U.S. dollars per U.S. gallon. As of July, except as indicated. Price includes tax except as noted. For most countries, based on exchange rates in effect as of July 31 of year shown)

COUNTRY AND TYPE	1973	1975	1980	1984	1985 <sup>1</sup>	COUNTRY AND TYPE	1973	1975	1980	1984	1985 <sup>1</sup>
United States: <sup>2</sup>						Germany, F.R., Bonn:					
Regular unleaded.....	(NA)	(NA)	1.25	1.21	1.20	Regular.....	1.18	1.25	2.46	1.74	1.59
Regular, leaded.....	.40	.57	1.19	1.13	1.12	Tax <sup>3</sup> .....	.72	.65	1.23	.68	.61
Premium, unleaded <sup>3</sup> .....	.45	.61	1.28	1.37	1.34	Premium.....	1.31	1.34	2.57	1.85	1.66
Tax <sup>4</sup> .....	.11	.12	1.14	.21	(NA)	Canada, Ottawa:					
France, Paris:						Regular.....	.49	.66	.81	1.48	1.55
Regular.....	1.06	1.56	2.97	2.18	(NA)	Tax.....	.19	.23	.25	.37	.39
Tax.....	.82	.34	1.70	(NA)	(NA)	Premium.....	.53	.67	.89	(NA)	(NA)
Premium.....	1.15	1.69	3.17	2.27	2.18	Mexico, Mexico City:					
Italy, Rome:						Regular.....	.24	.64	.45	.89	1.07
Regular.....	.99	1.66	3.08	2.66	2.43	Tax.....	(NA)	.31	.15	.52	.63
Tax.....	.79	1.15	1.89	1.81	1.65	Premium.....	.56	.91	*1.13	1.20	1.36
Premium.....	1.05	1.71	3.15	2.77	2.52	Japan, Tokyo:					
United Kingdom:						Regular.....	.83	1.36	2.72	2.26	2.26
Regular.....	.78	1.27	2.60	(NA)	(NA)	Tax <sup>5</sup> .....	.42	.45	.93	.92	.91
Tax <sup>5</sup> .....	.48	.41	1.24	(NA)	(NA)	Premium.....	.98	1.63	2.89	2.42	2.37
Premium.....	.81	1.31	2.85	2.03	(NA)						

NA Not available. <sup>1</sup> As of January. <sup>2</sup> 1973 prices for regular and premium in Washington, DC; all other data are national annual averages. Source: 1973—Energy Information Administration, *International Energy Annual*; thereafter, *Monthly Energy Review*.

<sup>3</sup> Prior to 1980, prices are for leaded premium. <sup>4</sup> Source: PennWell Publishing Co., Tulsa, OK, *Oil and Gas Journal*, weekly.

<sup>5</sup> Excludes import duty and value-added tax, if any. <sup>6</sup> January 1981.

Source: Except as noted, U.S. Energy Information Administration; 1973-1975 *International Petroleum Annual*; thereafter, *International Energy Annual*.

## No. 1039. 12-YEAR COST OF OWNING AND OPERATING AN AUTOMOBILE, BY SIZE OF CAR: 1984

[For basis of estimates for components of cost, see footnotes, table 1037. Estimates based on vehicle operated in Baltimore, MD area with an assumed life-span of 12 years, 120,000 miles]

ITEM	Total <sup>1</sup>	Taxes and fees	Costs, excl. taxes <sup>1</sup>	Depreciation	Repairs, maintenance	Tires	Gasoline	Insurance	Parking
<b>Total costs (\$1,000):</b>									
Large <sup>2</sup>	36.8	2.6	34.2	11.6	6.2	.8	8.2	5.9	1.1
Intermediate <sup>3</sup>	33.4	2.2	31.2	10.3	5.4	.8	6.6	6.7	1.1
Compact <sup>4</sup>	28.0	1.9	26.1	8.8	4.7	.5	5.3	5.2	1.1
Subcompact <sup>5</sup>	27.3	1.8	25.5	7.0	5.4	.5	5.1	5.2	1.1
Passenger van <sup>6</sup>	47.1	3.3	43.8	12.8	7.0	.9	10.7	10.6	1.1
<b>Cents per mile cost:</b>									
Large <sup>2</sup>	30.6	2.2	28.4	9.6	5.1	.7	6.8	4.9	.9
Intermediate <sup>3</sup>	27.8	1.8	26.0	8.6	4.5	.5	5.5	5.6	.9
Compact <sup>4</sup>	23.3	1.6	21.7	7.3	3.9	.4	4.5	4.3	.9
Subcompact <sup>5</sup>	22.7	1.4	21.3	5.9	4.5	.4	4.3	4.9	.9
Passenger van <sup>6</sup>	39.2	2.7	36.5	10.7	5.8	.8	8.9	8.9	.9

<sup>1</sup> Includes accessories and oil. <sup>2</sup> Fully equipped 4-door sedan, price \$11,554. <sup>3</sup> 2-door coupe, price \$10,320.

<sup>4</sup> 4-door sedan, price \$8,799. <sup>5</sup> 5-door (hatchback), price \$7,024. <sup>6</sup> Passenger van, price \$12,788.

Source: U.S. Federal Highway Administration, *Cost of Owning and Operating Automobiles and Vans*, periodic.

## No. 1040. ESTIMATED COST OF OWNING AND OPERATING AN AUTOMOBILE: 1970 TO 1984

[1984 estimates based on an automobile operated from the Baltimore, MD area, costing \$11,554, large car, and \$8,799, compact car, with an assumed life-span of 12 years, 120,000 miles. Prior years based on life-span of 10 years, 100,000 miles. Similar specifications used in other years shown]

ITEM	TOTAL COST (\$1,000)				CENTS PER MILE COST, 1984 (January)							
	1970	1976	1981	1984	12-year average	1st year (14,500 miles)	3d year (12,500 miles)	5th year (10,300 miles)	7th year (9,200 miles)	10th year (7,800 miles)	12th year (6,700 miles)	
LARGE SIZE 4-DOOR SEDAN												
Total .....	11.9	17.9	32.0	36.8	30.62	38.46	31.23	30.96	36.28	21.90	19.69	
Costs excluding taxes .....	10.5	16.3	30.2	34.2	28.48	33.01	29.60	37.34	34.37	20.25	18.04	
Depreciation.....	3.2	4.9	9.2	11.6	9.63	19.86	12.38	9.28	7.69	3.97	2.24	
Repairs and maintenance <sup>1</sup> .....	1.5	3.7	6.2	6.2	5.15	.69	3.92	12.87	13.32	2.10	.87	
Replacement tires <sup>2</sup> .....	.4	.4	.9	.8	.67	.13	.22	.94	.94	.94	.94	
Accessories <sup>3</sup> .....	(2)	.1	.2	.2	.17	.10	.10	.11	.23	.24	.24	
Gasoline <sup>4</sup> .....	1.7	3.2	8.6	8.2	6.85	6.85	6.85	6.85	6.85	6.85	6.85	
Oil <sup>4</sup> .....	.2	.2	.2	.2	.13	.06	.13	.19	.12	.16	.08	
Insurance <sup>5</sup> .....	1.7	1.7	4.0	5.9	4.94	4.38	5.08	6.16	4.28	5.05	5.88	
Garaging, parking, etc. <sup>6</sup> .....	1.8	2.2	.9	1.1	.94	.94	.94	.94	.94	.94	.94	
Taxes and fees <sup>7</sup> .....	1.4	1.6	1.8	2.6	2.14	5.45	1.63	1.62	1.91	1.65	1.65	
COMPACT CAR												
Total .....	(NA)	14.6	25.7	28.0	23.31	24.74	21.69	24.92	33.90	19.86	20.55	
Costs excluding taxes .....	(NA)	13.5	24.3	28.1	21.73	20.70	20.57	23.63	32.40	18.71	19.37	
Depreciation.....	(NA)	3.8	7.1	8.8	7.33	11.00	8.04	6.69	5.96	6.32	6.87	
Repairs and maintenance <sup>1</sup> .....	(NA)	3.0	5.2	4.7	3.92	.31	2.48	5.44	16.28	1.19	.62	
Replacement tires <sup>2</sup> .....	(NA)	.4	.6	.5	.43	.09	.08	.55	.54	.82	.82	
Accessories <sup>3</sup> .....	(NA)	.1	.2	.2	.19	.12	.12	.13	.25	.26	.26	
Gasoline <sup>4</sup> .....	(NA)	2.3	6.1	5.4	4.48	4.48	4.48	4.48	4.48	4.48	4.48	
Oil <sup>4</sup> .....	(NA)	.2	.2	.2	.13	.06	.13	.19	.11	.15	.08	
Insurance <sup>5</sup> .....	(NA)	1.6	4.0	5.2	4.31	3.70	4.30	5.21	3.86	4.55	5.30	
Garaging, parking, etc. <sup>6</sup> .....	(NA)	2.1	.9	1.1	.94	.94	.94	.94	.94	.94	.94	
Taxes and fees <sup>7</sup> .....	(NA)	1.1	1.4	1.9	1.58	4.04	1.12	1.29	1.50	1.15	1.18	

NA Not available. Z Less than \$50. <sup>1</sup> For 1984, includes lubrications, repacking wheel bearings, flushing cooling system, aiming headlamps; replacement of minor parts such as spark plugs, fan belts, radiator hoses, fuel filter, and pollution control equipment; minor repairs such as brake work, water pump, carburetor overhaul, and universal joints; and major repairs such as transmission work and carburetor replacement. <sup>2</sup> For 1984, covers 8 new regular tires and 2 new snow tires during life of car. <sup>3</sup> For 1984, includes a set of vinyl floor mats, seat covers, and a pair of extra wheels. <sup>4</sup> For 1984, gasoline use set at 17 miles per gallon for large size sedan and 26 miles per gallon for compact car; associated oil use at 1 quart oil every 2,500 miles driven between 50,000 and 75,000 miles and 1 quart every 2,000 miles driven between 75,000 and 120,000 miles. <sup>5</sup> For 1984, includes \$20,000/\$40,000 bodily injury, and \$10,000 property damage, \$2,500 personal injury protection, uninsured motorist coverage, and full comprehensive coverage for the 12-year period; \$100 deductible collision insurance was assumed for the first 5 years. <sup>6</sup> For 1984, includes parking fee average of \$95.20 per year and toll average of \$8.85 per year. Beginning 1981, excludes cost of home garage or parking facility which was included in prior years. <sup>7</sup> For 1984, Federal tax on gasoline of 9 cents per gallon; plus the Maryland tax on gasoline of 13.5 cents per gallon, titling tax of 5 percent of retail price, and registration fee of \$20.00 for 3,700 lb. or less shipping weight, or \$30.00 for vehicles over 3,700 lb. State sales tax of 5 percent included on certain items.

Source: U.S. Federal Highway Administration, *Cost of Owning and Operating Automobiles and Vans*, periodic.

# NO. 1041. TRUCKS—PERCENT DISTRIBUTION, BY VEHICLE AND OPERATIONAL CHARACTERISTICS: 1967 TO 1982

[See headnote, table 1042]

CHARACTERISTIC	1967	1972	1977	1982	CHARACTERISTIC	1967	1972	1977	1982
Total.....	100.0	100.0	100.0	100.0	Vehicle acquisition:				
Major use:					Purchased new.....	50.3	50.5	47.6	45.7
Agriculture <sup>1</sup> .....	25.1	22.6	17.0	12.2	Purchased used.....	47.9	47.8	50.0	51.5
Construction.....	9.3	8.6	6.7	11.2	Leased <sup>2</sup> .....	1.8	1.9	2.4	2.8
Manufacturing.....	2.4	2.3	1.4	1.7	Fleet size: <sup>3</sup> .....	53.3	61.9	71.6	77.8
Wholesale and retail trade.....	12.2	9.5	7.6	6.8	2 to 5.....	19.2	22.0	18.3	10.9
Personal transportation.....	33.6	41.2	54.4	56.7	6 to 19.....	8.7	8.8	6.6	5.3
All other.....	17.4	16.2	13.0	11.4	20 or more.....	7.5	7.6	5.5	6.0
Body type:					Truck type:				
Pickup, panel, multi-stop, or walk-in.....	70.3	73.3	84.5	86.4	Single-unit.....	<sup>4</sup> 83.4	95.4	96.8	95.7
Platform <sup>2</sup> .....	14.2	12.7	6.8	5.1	Combination.....	<sup>4</sup> 16.6	4.7	3.2	4.3
Van <sup>5</sup> .....	6.5	5.9	3.4	3.2	Annual miles: <sup>7</sup>				
All other.....	10.0	9.1	5.5	5.3	Less than 5,000.....	<sup>8</sup> 36.2	23.4	23.9	26.0
Vehicle size: <sup>4</sup> Light.....	73.6	74.0	85.4	89.3	5,000 to 9,999.....	<sup>8</sup> 19.8	28.1	24.0	25.5
Medium.....	13.6	14.3	6.0	3.5	10,000 to 19,999.....	30.7	33.5	37.0	35.0
Light-heavy.....	5.2	4.2	3.1	2.4	20,000 to 29,999.....	6.9	8.4	9.2	8.4
Heavy-heavy.....	7.6	7.6	5.5	4.8	30,000 miles or more.....	6.4	6.8	5.9	5.0
Year model:					Range of operation: <sup>6</sup>				
1 to 2 years old.....	16.5	14.8	17.1	8.9	Local.....	79.0	81.3	84.8	76.6
3 to 4 years old.....	18.7	18.9	17.5	18.5	Short-range <sup>9</sup> .....	13.2	8.7	8.4	10.3
4 years or more.....	64.8	66.6	65.4	74.6	Long-range <sup>10</sup> .....	4.9	2.4	2.1	3.1
					Off-the-road <sup>11</sup> .....	2.9	7.6	4.7	10.0
					Fuel type: <sup>4</sup>				
					Gasoline.....	86.2	87.9	96.0	94.3
					Diesel and LPG.....	10.9	4.4	3.9	5.5
					Not reported.....	2.9	7.9	-	.2

- Represents zero. <sup>1</sup> Includes forestry and lumbering. <sup>2</sup> Includes cattlerack. <sup>3</sup> See footnote 3, table 1042. <sup>4</sup> See footnote 4, table 1042. <sup>5</sup> Includes not reported. <sup>6</sup> Excludes panels and pickups. <sup>7</sup> Annual miles were imputed, if not reported. <sup>8</sup> Survey data were presented for "Less than 6,000 miles" and "6,000 to 9,999 miles." <sup>9</sup> Less than 201 miles. <sup>10</sup> 201 miles or more.

## NO. 1042. TRUCKS AND TRUCK-MILES, BY VEHICLE AND OPERATIONAL CHARACTERISTICS: 1982

[Data are based on a stratified probability sample of trucks drawn from current registrations on file with motor vehicle departments in the 50 States and DC]

ITEM	TRUCKS (1,000)		TRUCK-MILES (bil.)		ITEM	TRUCKS (1,000)		TRUCK-MILES (bil.)	
	Total	Excluding pickups, panels	Total	Excluding pickups, panels		Total	Excluding pickups, panels	Total	Excluding pickups, panels
Total.....	33,835	4,802	377.3	87.6	Range of operation:				
Major use:					Local.....	25,902	3,073	260.2	35.0
Agriculture <sup>1</sup> .....	4,121	1,213	39.3	9.9	Short-range <sup>2</sup> .....	3,498	682	59.5	22.5
Construction.....	3,795	841	49.3	10.1	Long-range <sup>3</sup> .....	1,039	358	35.3	26.4
Manufacturing.....	556	254	11.9	7.7	Off-the-road <sup>4</sup> .....	3,396	691	22.3	3.6
Wholesale and retail trade.....	2,316	844	39.5	17.8	Products carried:				
Personal transportation.....	19,188	1,722	167.4	8.8	Farm products.....	1,826	811	16.2	8.5
All other.....	3,858	1,480	69.8	41.6	Building materials.....	991	552	13.8	9.0
Body type:					Mixed cargoes.....	675	297	18.3	12.1
Pickup, panel, multi-stop, or walk-in.....	29,245	214	292.4	2.7	Craftsman's equipment.....	2,914	421	38.4	4.5
Platform <sup>5</sup> .....	1,738	1,738	20.2	20.2	Personal transportation.....	19,202	176	167.4	.8
Van <sup>6</sup> .....	1,086	1,086	37.9	37.9	All other.....	8,425	2,546	123.2	52.7
All other.....	1,763	1,763	26.8	26.8	Hazardous materials				
Vehicle size: <sup>7</sup> Light.....	30,223	1,346	299.5	11.8	carried.....	461	363	16.2	14.7
Medium.....	1,195	1,053	11.3	9.5	Less than 25 percent of time.....	244	190	10.3	9.4
Light-heavy.....	798	783	7.6	7.4	25 to 49 percent of time.....	117	77	3.0	2.4
Heavy-heavy.....	1,621	1,619	58.9	58.9	50 to 74 percent of time.....	20	18	.8	.7
Year model:					75 to 100 percent of time.....	80	78	2.2	2.2
1 to 2 years old.....	3,024	307	57.1	12.4	Types of hazardous material: <sup>8</sup>				
3 to 4 years old.....	5,585	663	86.5	22.4	Flammables or combustibles.....	361	309	13.6	12.7
4 years or more.....	25,225	3,832	233.7	52.7	Acids, poisons, caustics, etc.....	187	148	7.6	7.4
Vehicle acquisition:					Explosives.....	35	30	1.4	1.3
Purchased new.....	15,448	2,292	208.3	54.1	Radioactive materials.....	24	23	1.2	1.1
Purchased used.....	17,438	2,512	152.4	24.8	Hazardous waste.....	36	32	1.5	1.4
Leased <sup>9</sup> .....	949	298	16.6	8.8	All other.....	9	3	.1	(2)
Fleet size: <sup>10</sup> .....	26,333	1,665	253.4	20.1	Not reported.....				
2 to 5.....	3,697	1,099	43.4	12.8					
6 to 19.....	1,784	836	28.8	16.0					
20 or more.....	2,021	1,202	50.7	38.7					
Truck type:									
Single-unit.....	32,385	3,731	321.8	36.3					
Combination.....	1,449	1,071	55.5	51.3					

<sup>2</sup> Less than 50 million. <sup>1</sup> Includes forestry and lumbering. <sup>2</sup> Includes cattlerack. <sup>3</sup> Vans similar to panel trucks are included in panel. <sup>4</sup> Average operating weight (empty-weight of the vehicle plus the average load carried). Light=10,000 lbs. or less; medium=10,001-19,500 lbs.; light-heavy=19,501-26,000 lbs.; and heavy-heavy=26,001 lbs. or more. <sup>5</sup> Includes not reported. <sup>6</sup> Less than 201 miles. <sup>7</sup> 201 miles or more. <sup>8</sup> Detail does not add to totals because items were not applicable or multiple responses were possible.

Source of tables 1041 and 1042: U.S. Bureau of the Census, 1982 Census of Transportation, TC82-T-52.

## NO. 1043. PASSENGER TRANSIT INDUSTRY—SUMMARY: 1960 TO 1983

[Beginning 1970, includes Puerto Rico. Comprises all privately and publicly owned organized local passenger transportation agencies except taxicabs, suburban railroads, and sightseeing and school buses. Covers (a) local motorbus lines, (b) light rail lines, (c) heavy rail lines, and (d) trolley coach lines. Based on financial and statistical reports received by American Public Transit Association from transit systems representing more than 85 percent of the industry. See also *Historical Statistics, Colonial Times to 1970*, series Q 238-250]

ITEM	Unit	1960	1965	1970	1975	1978	1979	1980	1981	1982	1983
<b>Operating systems</b> .....	Number	1,251	1,148	1,079	947	1,018	1,027	1,044	1,035	1,036	1,038
Motorbus systems <sup>1</sup> .....	Number	1,236	1,145	1,075	941	1,014	1,023	1,040	1,030	1,031	1,031
Publicly owned systems <sup>1</sup> .....	Number	54	78	144	333	463	523	576	578	581	599
<b>Passenger vehicles owned</b> .....	Number	65,292	61,717	61,350	82,226	64,013	65,739	70,983	72,063	73,803	73,782
Motorbuses.....	Number	49,600	49,600	49,700	50,811	52,866	54,490	59,411	60,393	62,114	62,093
Electric railway cars <sup>2</sup> .....	Number	11,866	10,664	10,600	10,712	10,554	10,524	10,749	10,919	10,926	11,003
Heavy rail.....	Number	9,010	9,115	9,338	9,608	9,567	9,522	9,693	9,801	9,867	9,943
Trolley coaches.....	Number	3,826	1,453	1,050	703	593	725	823	751	763	686
<b>Total revenue</b> .....	Mill. dol.	(NA)	(NA)	(NA)	3,451	4,682	5,558	6,510	7,366	8,044	8,526
Operating revenue.....	Mill. dol.	1,407	1,444	1,707	2,002	2,381	2,524	2,663	2,784	3,152	3,231
Nonoperating revenue <sup>4</sup> .....	Mill. dol.	(NA)	(NA)	(NA)	41	69	124	142	281	305	273
Operating assistance.....	Mill. dol.	(NA)	(NA)	(NA)	1,408	2,232	2,910	3,705	4,321	4,587	5,023
Federal.....	Mill. dol.	(NA)	(NA)	(NA)	302	690	856	1,094	1,095	1,005	827
State and local.....	Mill. dol.	(NA)	(NA)	(NA)	1,106	1,542	2,055	2,611	3,226	3,582	4,195
<b>Total expense</b> .....	Mill. dol.	1,377	1,454	1,996	3,752	4,789	5,611	6,711	7,623	8,314	8,796
Operating expense.....	Mill. dol.	(NA)	(NA)	(NA)	3,537	4,539	5,232	6,246	7,024	7,553	7,956
Transportation.....	Mill. dol.	(NA)	(NA)	(NA)	1,877	2,508	2,735	3,248	3,596	3,882	3,931
Maintenance.....	Mill. dol.	(NA)	(NA)	(NA)	814	1,069	1,469	1,774	1,946	2,168	2,392
Administration.....	Mill. dol.	(NA)	(NA)	(NA)	846	962	1,028	1,224	1,482	1,503	1,634
Reconciling expense.....	Mill. dol.	(NA)	(NA)	(NA)	215	250	380	464	597	781	780
<b>Vehicle-miles operated</b> <sup>5</sup> .....	Million	2,143	2,008	1,883	1,990	2,028	2,045	2,093	2,134	2,128	2,117
Motorbus.....	Million	1,576	1,528	1,409	1,526	1,630	1,634	1,677	1,685	1,669	1,678
Electric railway <sup>5</sup> .....	Million	468	437	441	448	384	400	403	437	446	421
Heavy rail.....	Million	391	395	407	423	384	380	385	420	429	408
<b>Passengers carried</b> <sup>6</sup> .....	Million	9,395	8,253	7,332	6,972	7,616	8,130	8,235	7,964	7,741	7,889
Motorbus <sup>6</sup> .....	Million	6,425	5,614	5,034	5,084	5,721	6,168	6,837	5,594	5,324	5,422
Electric railway <sup>6</sup> .....	Million	2,313	2,134	2,116	1,810	1,825	1,899	2,256	2,232	2,266	2,307
<b>Avg. revenue per passenger</b> .....	Cents	14.2	16.2	22.4	26.7	29.8	30.0	31.0	33.9	39.7	40.2
<b>Employees, number (avg.)</b> .....	1,000	156	145	138	160	165	178	187	193	194	195
Payroll, employee.....	Mill. dol.	857	964	1,274	2,236	2,741	3,025	3,280	3,494	3,731	3,921

NA Not available. <sup>1</sup> Includes systems with combined services including motorbuses, heavy rail cars, light rail cars, trolley coaches, cable cars, and inclined plane cars. <sup>2</sup> Includes light rail. <sup>3</sup> Beginning 1975, includes cable car and inclined plane. <sup>4</sup> Includes auxiliary income. <sup>5</sup> Includes trolley coach, not shown separately. <sup>6</sup> Data for 1960-1979 not comparable with later years.

Source: American Public Transit Association, Washington, DC, *Transit Fact Book*, annual.

## NO. 1044. TRUCKING SERVICES—OPERATING REVENUES, OPERATING EXPENSES, AND EQUIPMENT, BY TYPE OF CARRIER: 1984 AND 1985

[In millions of dollars, except as indicated. Data cover SIC group 421. Estimates include both regulated and nonregulated carriers; excluded are non-employers (i.e., firms with no paid employees) and private fleets operated as auxiliary establishments to nontransportation companies. Some unpublished estimates may be derived from this table by subtraction, but such figures are subject to high sampling variability and should be used with caution.]

ITEM	ALL CARRIERS		SPECIALTY FREIGHT CARRIERS		GENERAL FREIGHT CARRIERS	
	1984	1985	1984	1985	1984	1985
<b>Operating revenues:</b>						
Total <sup>1</sup> .....	79,715	84,015	25,072	26,877	54,643	57,138
Motor carrier.....	73,999	78,017	21,902	23,491	52,096	54,586
Local trucking.....	15,630	17,526	7,518	8,537	8,312	8,989
Intercity trucking.....	58,169	60,490	14,385	14,893	43,785	45,597
<b>Operating expenses:</b>						
Total.....	75,222	80,281	23,349	25,380	51,872	54,901
Annual payroll.....	25,276	26,400	6,431	6,796	18,844	19,605
Employer contributions to Social Security and other supplemental labor benefits.....	5,778	6,003	1,185	1,270	4,593	4,734
Purchased fuels.....	6,325	6,446	1,808	1,848	4,516	4,598
Lease and rental payments.....	15,941	16,984	(S)	(S)	10,585	11,214
Depreciation.....	3,783	4,068	(S)	(S)	2,500	2,689
Taxes and licenses.....	1,686	1,662	494	548	1,192	1,314
Other.....	16,435	18,518	6,792	7,769	9,642	10,749
<b>Equipment</b> <sup>2</sup> (1,000 units):						
Trucks.....	(NA)	221	(NA)	88	(NA)	132
Truck-tractors.....	(NA)	473	(NA)	147	(NA)	326
Trailers, full and semi.....	(NA)	1,011	(NA)	207	(NA)	804

NA Not available. S Data do not meet publication standards. <sup>1</sup> Includes other revenues not shown separately. <sup>2</sup> Represents revenue generating freight equipment as of December 31. Includes owned and leased equipment.

Source: U.S. Bureau of the Census, *Current Business Reports*, 1985 Motor Freight Transportation and Warehousing Survey.

## No. 1045. CLASS I INTERCITY MOTOR CARRIERS OF PROPERTY, BY CARRIER: 1975 TO 1984

[See headnote, table 1046. Common carriers are carriers offering regular scheduled service. Contract carriers provide service at request of user. Minus sign (—) indicates loss]

ITEM	Unit	1975	1980	1983	1984	1975	1980	1983	1984
		COMMON CARRIER, GENERAL FREIGHT				COMMON CARRIER OTHER THAN GENERAL FREIGHT			
Carriers reporting.....	Number.....	368	298	291	254	330	441	510	484
Number of employees, average.....	1,000.....	379	413	352	382	84	101	85	87
Compensation of employees.....	Mill. dol.....	5,726	9,803	9,793	10,428	1,046	1,931	1,923	1,972
Operating revenues.....	Mill. dol.....	11,116	19,725	21,287	22,482	3,907	8,792	8,798	8,891
Intercity freight.....	Mill. dol.....	10,511	19,480	21,024	22,222	3,717	8,339	8,398	8,654
Operating expenses.....	Mill. dol.....	10,571	18,870	19,886	21,279	3,758	8,428	8,450	8,653
Ordinary income before taxes.....	Mill. dol.....	432	701	1,286	1,084	109	230	204	254
Net income.....	Mill. dol.....	225	-72	750	657	65	14	152	182
Total power units, intercity service.....	1,000.....	79	103	107	106	69	95	90	88
Trucks, tractors owned in operation, avg.....	1,000.....	49	73	76	80	25	33	32	32
Intercity vehicle-miles.....	Million.....	6,246	6,547	6,004	6,045	4,776	6,889	6,670	6,589
Tons of intercity revenue freight carried.....	Million.....	191	178	150	147	284	324	318	345
		CONTRACT CARRIER OTHER THAN GENERAL FREIGHT				CARRIERS OF HOUSEHOLD GOODS			
Carriers reporting.....	Number.....	50	69	85	69	32	28	37	35
Number of employees, average.....	1,000.....	10	14	19	19	4	10	9	10
Compensation of employees.....	Mill. dol.....	175	336	525	569	70	157	161	180
Operating revenues.....	Mill. dol.....	453	1,272	1,769	1,836	866	1,824	2,125	2,510
Intercity freight.....	Mill. dol.....	411	1,172	1,613	1,688	765	1,676	1,930	2,288
Operating expenses.....	Mill. dol.....	432	1,207	1,684	1,734	849	1,781	2,080	2,432
Ordinary income before taxes.....	Mill. dol.....	17	48	99	92	32	74	80	107
Net income.....	Mill. dol.....	9	28	81	57	18	42	51	70
Total power units, intercity service.....	1,000.....	8	13	16	16	18	25	31	33
Trucks, tractors owned in operation, avg.....	1,000.....	5	7	9	10	(2)	1	1	1
Intercity vehicle-miles.....	Million.....	454	934	1,195	1,267	688	969	985	1,222
Tons of intercity revenue freight carried.....	Million.....	21	37	38	38	3	5	6	7

Z Less than 500.

Source: U.S. Interstate Commerce Commission, *Transport Statistics in the United States*, Part 2, annual.

## No. 1046. CLASS I INTERCITY MOTOR CARRIERS OF PASSENGERS: 1970 TO 1984

[Carriers subject to ICC regulations. See text, section 21. Minus sign (—) indicates deficit. See also *Historical Statistics, Colonial Times to 1970*, series Q 69-75]

ITEM	Unit	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Carriers reporting <sup>1</sup> .....	Number.....	71	77	78	42	43	45	48	45	50	45	43
Number of employees, average.....	1,000.....	34	31	32	27	26	27	31	31	30	25	25
Compensation of employees.....	Mill. dol.....	317	383	446	400	412	469	599	630	648	570	551
Operating revenue.....	Mill. dol.....	722	942	975	969	1,021	1,200	1,397	1,453	1,447	1,278	1,255
Passenger revenue <sup>2</sup> .....	Mill. dol.....	524	651	645	655	671	802	947	993	969	878	861
Special bus revenue and other.....	Mill. dol.....	198	291	(NA)	314	345	398	215	202	229	180	180
Operating expenses.....	Mill. dol.....	639	880	937	924	983	1,143	1,318	1,381	1,416	1,283	1,254
Net operating revenue.....	Mill. dol.....	83	61	37	45	38	57	79	72	30	-7	1
Ordinary income:												
Before income taxes.....	Mill. dol.....	88	83	49	58	57	57	107	88	35	16	53
After income taxes.....	Mill. dol.....	52	56	32	40	41	57	90	61	37	28	43
Passenger vehicles in service <sup>3</sup> .....	1,000.....	13.3	9.7	(NA)	8.3	8.5	8.2	8.6	8.4	8.1	7.3	7.0
Vehicle-miles, passenger.....	Million.....	871	835	(NA)	754	726	754	781	732	717	581	585
Revenue passengers carried.....	Million.....	174	147	(NA)	122	118	122	134	114	112	94	89
Expense per vehicle-mile.....	Dollar.....	.73	1.05	(NA)	1.23	1.35	1.52	1.69	1.89	1.98	2.17	2.14

NA Not available. <sup>1</sup> Excludes carriers preponderantly in local or suburban service and carriers engaged in transportation of both property and passengers. <sup>2</sup> Includes \$4 million from Government authorities for current operations.

<sup>3</sup> Regular route, intercity and local.

Source: U.S. Interstate Commerce Commission, 1970, *Transport Statistics in the United States*, Part 7, and 1975-1984, Part 2, annual; except 1976, *Financial and Operating Statistics, Class I Motor Carriers of Passengers*, statement No. 750, semiannual. (Discontinued in 1979.)

## No. 1047. INTERCITY BUS LINES—SUMMARY OF OPERATIONS: 1970 TO 1984

ITEM	Unit	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Operating companies.....	Number.....	1,000	950	1,000	1,050	1,100	1,200	1,330	1,470	1,520	(NA)	(NA)
Buses.....	1,000.....	22.0	20.5	20.1	20.1	20.4	21.3	21.4	21.7	20.9	20.4	20.1
Miles of highway served (Dec. 31) <sup>1</sup> .....	1,000.....	267	274	276	276	278	280	279	276	273	270	266
Employees (Dec. 31) <sup>2</sup> .....	1,000.....	50	47	46	46	46	49	49	50	48	45	44
Bus miles, total.....	Million.....	1,209	1,126	1,118	1,118	1,100	1,153	1,162	1,151	1,115	1,027	1,022
Revenue passengers.....	Million.....	401	351	340	329	338	368	370	370	359	352	345
Charter and tour passengers.....	Million.....	92	145	155	160	175	185	195	204	206	209	206
Revenue passenger-miles.....	Billion.....	25.3	25.4	25.1	26.0	25.6	27.7	27.4	268	27.3	25.4	24.5
Operating revenue, all services.....	Mill. dol.....	901	1,172	1,232	1,331	1,419	1,664	1,943	2,097	2,070	1,953	1,925
Operating expenses.....	Mill. dol.....	812	1,103	1,180	1,276	1,366	1,572	1,811	1,982	2,013	1,938	1,907
Net operating revenue <sup>3</sup> .....	Mill. dol.....	89	69	52	55	53	92	132	115	57	15	18

NA Not available. <sup>1</sup> Includes duplication between carriers. <sup>2</sup> Operating companies only. <sup>3</sup> Before income taxes.

Source: American Bus Association, Washington, DC, *Bus Facts*, annual; and *Annual Report*.

## NO. 1048. RAILROADS, CLASS I—SUMMARY: 1970 TO 1985

[As of Dec. 31, or calendar year data, except as noted. Compiled from annual reports of class I railroads only, except where noted. Beginning 1983, financial data may not be comparable with earlier years due to changes in accounting systems. Minus sign (—) indicates deficit. See also *Historical Statistics, Colonial Times to 1970*, series Q 284-312, Q 330, Q 356-363, and Q 367-377.]

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985
<b>Class I line-hauling companies <sup>1</sup></b>	Number	71	73	41	39	38	33	32	29	26
Employees <sup>2</sup>	1,000	566	494	503	480	457	397	342	344	<sup>3</sup> 322
Compensation	Mill. dol.	5,711	7,475	10,904	11,318	11,950	11,021	10,345	11,004	10,583
Average per hour	Dollars	4.14	6.39	9.22	10.21	11.14	12.26	13.29	13.84	(NA)
Average per year	Dollars	10,086	15,324	22,585	24,659	26,696	29,087	32,125	34,064	34,991
<b>Mileage:</b>										
Railroad line owned <sup>3</sup>	1,000	206	199	185	179	169	165	161	157	(NA)
Railroad track owned <sup>4</sup>	1,000	336	324	300	290	278	275	270	264	(NA)
<b>Equipment:</b>										
Locomotives in service	Number	27,086	28,210	28,097	28,396	27,808	27,073	25,838	24,506	<sup>5</sup> 22,725
Average horsepower	1,000 lb.	1,926	2,121	2,188	2,302	2,326	2,341	2,364	2,415	<sup>5</sup> 2,453
Cars in service:										
Passenger-train	Number	11,177	6,471	4,241	4,347	3,945	3,736	2,610	<sup>6</sup> 2,580	(NA)
Freight train <sup>7</sup>	1,000	1,784	1,724	1,700	1,711	1,673	1,588	1,543	1,486	1,422
Freight cars <sup>8</sup>	1,000	1,454	1,359	1,217	1,168	1,111	1,039	1,007	948	867
Average capacity <sup>9</sup>	Tons	67.1	72.9	77.7	78.5	80.5	81.6	82.4	83.4	<sup>8</sup> 84.0
Aggregate capacity <sup>9</sup>	Mill. tons	95.6	99.2	94.6	92.7	89.4	84.8	83.0	80.0	<sup>8</sup> 73.0
Box <sup>9</sup>	1,000	590	475	380	347	314	278	271	245	216
Gondola and hopper <sup>9</sup>	1,000	724	680	645	636	621	594	577	552	506
Other <sup>9</sup>	1,000	140	204	192	185	176	167	159	151	135
<b>Income and expenses:</b>										
Operating revenues	Mill. dol.	11,992	16,402	25,219	28,103	30,899	27,504	26,729	29,453	<sup>5</sup> 27,635
Operating expenses	Mill. dol.	11,478	15,936	23,984	26,250	28,587	26,490	24,106	25,800	<sup>5</sup> 25,259
Tax accruals	Mill. dol.	1,069	1,708	2,412	2,578	3,330	21,628	3,014	3,577	(NA)
Interest on funded debt	Mill. dol.	497	623	789	933	1,056	1,019	939	916	<sup>8</sup> 881
Net ordinary income	Mill. dol.	227	144	938	1,192	2,041	1,152	1,778	2,654	<sup>5</sup> 1,779
Net railway operating income	Mill. dol.	486	351	897	1,312	1,361	742	1,838	2,536	<sup>5</sup> 1,762
Rate of return on average net investment	Percent	1.73	1.20	2.87	4.13	3.98	2.11	4.29	5.70	<sup>5</sup> 3.91
<b>Balance sheet:</b>										
Total property investment	Mill. dol.	38,213	40,344	40,498	43,923	46,619	47,311	62,964	63,471	(NA)
Accrued depreciation and amortization	Mill. dol.	10,027	10,605	10,227	10,706	11,822	12,051	19,480	20,098	(NA)
Net investment	Mill. dol.	28,186	29,740	30,271	33,217	34,997	35,260	43,483	45,435	<sup>5</sup> 27,480
Shareholder's equity	Mill. dol.	17,323	14,942	17,796	19,880	21,253	21,349	26,461	27,996	<sup>5</sup> 27,480
Net working capital	Mill. dol.	—59	68	555	897	1,692	1,372	1,325	1,844	<sup>5</sup> 1,044
Cash dividends	Mill. dol.	421	434	563	610	692	1,039	1,095	1,088	1,444
<b>AMTRAK passenger traffic:</b>										
Passenger revenue	Mill. dol.	(NA)	(NA)	(NA)	(NA)	468.1	464.3	513.8	556.5	610.9
Revenue passengers carried	1,000	(NA)	(NA)	(NA)	(NA)	19,889	18,725	19,469	20,065	20,945
Revenue passenger miles	Mill.	(NA)	(NA)	(NA)	(NA)	4,662	4,122	4,343	4,566	4,977
Averages:										
Revenue per passenger	Dol.	(NA)	(NA)	(NA)	(NA)	23.54	24.80	26.39	28.23	29.17
Revenue per passenger mile	Cents	(NA)	(NA)	(NA)	(NA)	10.33	11.26	11.83	12.43	12.27
Trip per passenger	Miles	(NA)	(NA)	(NA)	(NA)	234.4	220.1	223.1	227.6	237.6
<b>Freight service:</b>										
Freight revenue	Mill. dol.	10,922	15,390	23,447	26,200	28,925	25,627	25,835	28,472	<sup>5</sup> 26,734
Revenue-tons originated	Million	1,485	1,395	1,502	1,492	1,453	1,269	1,293	1,429	<sup>5</sup> 1,312
Tons carried one mile	Billion	765	754	914	919	910	798	827	922	<sup>5</sup> 875
Revenue ton-miles per mile of road	1,000	3,652	3,666	4,979	5,133	5,142	4,802	4,676	5,578	5,445
Revenue per ton-mile	Cents	1.428	2.041	2.599	2.852	3.178	3.212	3.119	3.090	<sup>5</sup> 3.055
Haul per ton, U.S. as a system	Miles	490	516	580	590	600	604	613	617	635
<b>Accidents:<sup>9</sup></b>										
Persons killed	Number	2,255	1,560	1,429	1,417	1,284	1,119	1,073	1,247	1,036
Persons injured	Number	21,327	54,306	74,126	62,246	53,003	40,275	34,816	38,570	34,304

NA Not available. <sup>1</sup> See text, section 21 for definitions of class I and class II. <sup>2</sup> Average mid-month count.

<sup>3</sup> Represents the aggregate length of roadway of all line-haul railroads. Excludes yard tracks, sidings, and parallel lines. (Includes estimate for class II and III railroads.) <sup>4</sup> Includes multiple main tracks, yard tracks, and sidings owned by both line-haul and switching and terminal. (Includes estimate for class II and III railroads.) <sup>5</sup> Preliminary. <sup>6</sup> Excludes Long Island Railroad, which was reclassified. <sup>7</sup> Includes cars owned by all railroads, private car companies, and shippers. <sup>8</sup> Class I railroads only.

<sup>9</sup> Includes highway grade crossing casualties. 1970 not comparable with later years due to change in requirements for reporting injuries.

Source: Association of American Railroads, Washington, DC, *Yearbook of Railroad Facts, Statistics of Railroads of Class I*, annual, and *Analysis of Class I Railroads*, annual. Accident data: U.S. Federal Railroad Administration, *Accident Bulletin*, annual.

## NO. 1049. RAILROADS, CLASS I LINE-HAUL—FINANCIAL SUMMARY: 1970 TO 1985

[In millions of dollars, except percent. Minus sign (—) indicates deficit. Data prior to 1978 have been restated to conform with revised Uniform System of Accounts. See also *Historical Statistics, Colonial Times to 1970*, series Q 364–366 and Q 378]

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985, prel.
Operating revenues.....	11,992	16,402	20,090	21,721	25,219	28,103	30,899	27,504	26,729	29,453	27,635
Freight.....	11,106	15,380	18,892	20,236	23,447	26,200	28,925	25,627	25,035	28,472	26,734
Passenger.....	420	297	337	356	382	438	534	573	107	101	133
Other.....	466	715	861	1,130	1,390	1,464	1,439	1,303	787	880	798
Operating expenses.....	11,478	15,938	19,534	21,043	23,994	26,250	28,587	26,490	24,106	25,800	25,259
Net revenue from railway operations.....	514	465	557	678	1,225	1,853	2,312	1,013	2,623	3,653	2,376
Income before fixed charges.....	994	1,094	1,353	1,623	2,367	3,167	4,425	2,680	3,889	4,893	3,413
Income taxes on ordinary income <sup>1</sup> .....	88	58	60	183	199	291	45	58	44	255	294
Net railway operating income.....	227	144	326	307	938	1,192	2,041	1,152	1,778	2,654	1,779
Rate of return (percent).....	4.86	3.51	3.43	4.27	8.37	1.312	1.361	7.42	1.838	2.536	1.782
Shareowners' equity.....	1.73	1.20	1.24	1.52	2.87	4.13	3.98	2.11	4.29	5.70	3.31
Shareowners' equity.....	17,323	14,942	15,727	16,175	17,796	19,860	21,253	21,349	26,461	27,996	27,480
Net working capital <sup>2</sup> .....	—69	68	571	603	555	897	1,692	1,372	1,325	1,844	1,044
Cash dividends.....	421	434	497	503	563	610	682	1,038	1,085	1,066	(NA)
Gross capital expenditures.....	1,351	1,790	2,290	2,738	3,324	3,621	2,750	1,975	2,781	3,744	(NA)
Equipment.....	993	1,303	1,540	1,883	2,265	2,346	1,502	713	455	806	(NA)
Roadway and structures.....	358	486	751	855	1,039	1,275	1,248	1,262	2,306	2,938	(NA)

NA Not available. <sup>1</sup> Includes State income taxes beginning 1978. <sup>2</sup> Represents credit. <sup>3</sup> Current assets minus current liabilities, including debt due within one year.

Source: Association of American Railroads, Washington, DC, *Statistics of Railroads of Class I*, annual; *Yearbook of Railroad Facts*, annual; and *Analysis of Class I Railroads*, annual.

## NO. 1050. RAILROADS, CLASS I LINE-HAUL—SELECTED FREIGHT STATISTICS: 1970 TO 1985

[Excludes switching and terminal roads. See text, section 21, for definition of class I. See *Historical Statistics, Colonial Times to 1970*, series Q 319, for train-miles per train-hour]

ITEM	Unit	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985, prel.
Average miles of road operated.....	1,000.....	209	205	197	192	183	179	177	174	170	165	161
Freight revenue.....	Bil. dol.....	10.9	15.4	18.9	20.3	23.6	26.2	29.9	25.6	28.5	28.5	26.7
Per ton-mile.....	Cents.....	1.43	2.04	2.29	2.37	2.59	2.63	3.18	3.21	3.20	3.09	3.06
Per ton originated.....	Dollar.....	7.67	11.40	13.90	14.95	16.17	18.05	20.36	20.89	20.66	20.89	21.39
Revenue freight:												
Tons originated.....	Million.....	1,485	1,395	1,395	1,390	1,502	1,492	1,453	1,269	1,293	1,429	1,312
Tons carried.....	Million.....	2,818	2,437	2,438	2,217	2,463	2,434	2,377	1,979	1,932	2,113	(NA)
Revenue ton-miles.....	Billion.....	765	754	828	858	914	919	910	798	829	922	875
Average haul.....	Miles.....	292	309	339	371	366	377	381	403	429	436	(NA)
Train miles.....	Million.....	427	402	428	433	438	428	408	345	346	369	347
Freight car miles, loaded <sup>2</sup> .....	Billion.....	17.3	15.1	16.3	15.9	15.8	14.7	13.8	11.7	13.8	15.0	(NA)
Empty.....	Billion.....	12.6	12.5	12.4	11.1	11.5	10.2	11.2	9.2	10.6	11.4	(NA)
Net ton-miles per train-mile <sup>3</sup> .....	Number.....	1,820	1,938	2,029	2,029	2,096	2,175	2,265	2,345	2,432	2,543	2,574
Net ton-miles per loaded car-mile <sup>4</sup> .....	Number.....	44.9	51.7	53.2	55.1	57.9	63.5	67.1	68.3	61.2	62.4	62.7
Train-miles per train-hour.....	Miles.....	20.1	20.0	19.8	19.3	17.2	18.2	19.0	21.4	20.3	21.4	21.9

NA Not available. <sup>1</sup> Preliminary. <sup>2</sup> Revenue and nonrevenue freight.

Source: 1970–1978, U.S. Interstate Commerce Commission, *Annual Report: Transport Statistics in the United States*, Part 1, annual, and related quarterly reports; *Financial and Operating Statistics, Class I Railroads*, Statement No. 100, semiannual, and unpublished data; thereafter, Association of American Railroads, Washington, DC, *Yearbook of Railroad Facts*, annual.

## NO. 1051. RAILROADS, CLASS I—CARS OF REVENUE FREIGHT LOADED, 1960 TO 1985, AND BY COMMODITY GROUP, 1984 AND 1985

[In thousands. Figures are 52-week totals. Data for 1978–85 include 12 class II railroads which were class I in 1977. See text, section 21, for definition of class I. N.e.c.=Not elsewhere classified]

YEAR	CARLOADS		COMMODITY GROUP	CARLOADS		COMMODITY GROUP	CARLOADS	
	Total	Piggy-back		1984	1985		1984	1985
1960.....	30,441	554	Coal.....	5,919	5,785	Crushed stone, gravel, sand.....	588	613
1965.....	29,248	1,077	Metallic ores.....	850	727	Nonmetallic minerals, n.e.c.....	608	572
1970.....	27,160	1,450	Chemicals, allied products.....	1,272	1,243	Waste and scrap materials.....	493	437
1975.....	23,217	1,308	Grain.....	1,417	1,175	Lumber, wood products (exc. furniture), n.e.c.....	371	360
1976.....	23,457	1,506	Motor vehicles and equipment.....	1,010	1,079	Forwarder and shipper association traffic.....	388	335
1977.....	23,173	1,689	Pulp, paper, allied products.....	763	713	Petroleum product.....	265	252
1978.....	23,355	1,841	Primary forest products.....	697	586	Farm products, exc. grain.....	248	238
1979.....	23,892	1,858	Food and kindred products, n.e.c.....	560	568	Less than carload.....	209	189
1980.....	22,598	1,681	Grain mill products.....	548	531	All other carloads.....	3,013	3,036
1981.....	21,613	1,723	Metals and products.....	475	444			
1982.....	18,498	1,920	Stone, clay, and glass products.....	580	531			
1983.....	18,815	2,348						
1984.....	20,257	2,703						
1985.....	19,420	2,809						

Source: Association of American Railroads, Washington, DC, *Cars of Revenue Freight Loaded*, annual.

**NO. 1052. RAILROADS, CLASS I LINE-HAUL—REVENUE FREIGHT ORIGINATED, BY COMMODITY GROUP: 1970 TO 1985**

[Data for 1976 are omitted due to incomplete reporting. See *Historical Statistics, Colonial Times to 1970*, series Q 332, for total carloads originated]

COMMODITY GROUP	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985, prel.
CARLOADS (1,000)											
<b>Total <sup>1</sup></b>	<b>27,015</b>	<b>22,930</b>	<b>22,623</b>	<b>22,482</b>	<b>23,409</b>	<b>22,223</b>	<b>21,343</b>	<b>18,585</b>	<b>19,013</b>	<b>20,946</b>	<b>19,349</b>
Coal.....	5,296	4,844	4,809	4,972	5,329	5,789	5,835	5,718	5,276	6,061	5,669
Farm products.....	2,374	1,873	1,571	1,599	1,721	1,866	1,837	1,566	1,842	1,757	1,487
Food and kindred products.....	2,705	2,154	2,022	1,922	1,767	1,557	1,391	1,316	1,316	1,234	1,201
Metallic ores.....	1,602	1,338	1,020	1,405	1,480	1,258	1,354	761	812	1,001	511
Chemicals, allied products.....	1,576	1,313	1,421	1,426	1,471	1,322	1,322	1,120	1,216	1,312	1,288
Nonmetallic minerals <sup>2</sup> .....	2,204	1,895	1,725	1,650	1,592	1,474	1,272	958	1,079	1,204	1,194
Lumber and wood products <sup>3</sup> .....	2,048	1,615	1,738	1,629	1,565	1,384	1,254	1,002	1,075	1,051	943
Transportation equipment.....	1,059	1,135	1,417	1,352	1,278	1,004	939	801	854	1,141	1,192
Pulp, paper, allied products.....	1,197	1,015	1,077	975	977	954	899	785	746	741	694
Primary metal products.....	1,486	796	814	873	913	756	760	459	440	467	448
Stone, clay, and glass products.....	1,231	908	924	911	920	776	690	516	543	576	548
Waste and scrap materials.....	805	744	689	734	713	632	610	409	417	480	423
Petroleum and coal products.....	699	787	768	704	716	586	607	467	495	529	490
Machinery, exc. electrical.....	200	156	110	104	90	77	66	43	38	40	35
Fabricated metal products <sup>4</sup> .....	398	244	112	96	97	72	55	36	39	37	31
TONS (mil.)											
<b>Total <sup>1</sup></b>	<b>1,484.9</b>	<b>1,395.1</b>	<b>1,394.7</b>	<b>1,390.4</b>	<b>1,502.1</b>	<b>1,492.4</b>	<b>1,453.0</b>	<b>1,268.6</b>	<b>1,292.6</b>	<b>1,429.4</b>	<b>1,312.1</b>
Coal.....	404.6	407.6	414.9	383.1	473.8	522.1	527.6	523.8	493.6	566.8	536.7
Farm products.....	134.2	134.4	121.9	128.7	138.5	156.1	139.9	133.5	142.2	151.1	124.6
Food and kindred products.....	110.1	100.2	98.7	95.4	93.2	91.9	82.8	77.0	75.2	72.1	72.0
Metallic ores.....	126.7	106.4	83.2	112.5	119.9	105.4	113.8	62.6	68.4	85.5	46.9
Chemicals, allied products.....	91.6	91.4	104.3	106.7	112.4	108.3	105.9	91.2	99.3	107.4	106.1
Nonmetallic minerals <sup>2</sup> .....	163.3	150.6	139.6	135.0	132.3	124.8	110.0	84.7	96.5	108.2	107.5
Lumber and wood products <sup>3</sup> .....	101.8	88.6	99.3	95.1	93.1	85.5	80.3	65.9	71.7	69.8	63.0
Transportation equipment.....	24.2	27.3	33.6	32.2	30.6	23.9	22.2	18.8	22.2	26.1	27.0
Pulp, paper, allied products.....	42.5	40.6	44.9	41.4	42.4	42.1	41.6	36.4	36.6	37.7	35.7
Primary metal products.....	82.2	51.4	55.2	60.3	63.9	52.7	53.3	32.0	32.0	36.1	33.4
Stone, clay, and glass products.....	71.1	56.8	59.9	59.9	61.5	53.7	49.2	38.2	41.6	44.7	43.2
Waste and scrap materials.....	39.8	38.2	36.1	37.8	38.5	34.3	34.1	22.7	24.5	28.8	25.4
Petroleum and coal products.....	36.3	45.8	46.1	44.4	43.9	38.1	38.0	31.6	33.6	35.3	32.8
Machinery, exc. electrical.....	4.6	3.6	2.7	2.5	2.3	2.0	1.7	1.2	.8	.9	.9
Fabricated metal products <sup>4</sup> .....	11.3	8.2	2.9	2.5	2.3	2.0	1.7	1.0	.8	.9	.8
GROSS REVENUE (mil. dol.)											
<b>Total <sup>1</sup></b>	<b>11,388</b>	<b>15,899</b>	<b>19,394</b>	<b>20,785</b>	<b>24,283</b>	<b>26,938</b>	<b>29,590</b>	<b>26,504</b>	<b>26,710</b>	<b>29,866</b>	<b>27,993</b>
Coal.....	1,381	2,146	2,698	2,813	3,872	4,956	5,977	6,307	5,969	6,965	6,536
Farm products.....	1,068	1,472	1,485	1,678	2,101	2,801	2,621	2,305	2,374	2,483	1,944
Food and kindred products.....	1,363	1,822	2,041	2,158	2,421	2,837	2,928	2,604	2,349	2,309	2,231
Metallic ores.....	333	469	447	553	621	597	723	403	450	567	403
Chemicals, allied products.....	1,137	1,691	2,212	2,342	2,739	2,946	3,288	2,942	3,078	3,360	3,312
Nonmetallic minerals <sup>2</sup> .....	409	598	697	723	829	948	1,036	852	834	987	935
Lumber and wood products <sup>3</sup> .....	832	1,068	1,416	1,461	1,548	1,559	1,363	1,527	1,611	1,508	1,088
Transportation equipment.....	734	1,283	1,988	2,089	2,167	1,917	2,120	1,966	2,292	2,659	3,084
Pulp, paper, allied products.....	730	977	1,212	1,260	1,445	1,652	1,848	1,717	1,671	1,782	1,816
Primary metal products.....	813	848	957	1,104	1,291	1,392	1,559	977	816	955	866
Stone, clay, and glass products.....	512	651	822	902	1,018	1,025	1,114	888	908	1,024	954
Waste and scrap materials.....	232	359	404	432	479	513	573	418	423	496	441
Petroleum and coal products.....	305	573	690	713	835	865	1,019	887	844	913	857
Machinery, exc. electrical.....	148	200	163	166	174	176	176	115	75	81	71
Fabricated metal products <sup>4</sup> .....	210	221	121	115	117	110	105	71	52	67	48

<sup>1</sup> Includes commodity groups and small packaged freight shipments, not shown separately. <sup>2</sup> Except fuels.

<sup>3</sup> Except furniture. <sup>4</sup> Except ordinance, machinery, and transport.

Source: 1970-1979, U.S. Interstate Commerce Commission, *Freight Commodity Statistics—Class I Railroads in the United States*, annual; thereafter, Association of American Railroads, Washington, DC, *Freight Commodity Statistics*, annual.

**NO. 1053. RAILROAD FREIGHT—PRODUCER PRICE INDEXES: 1970 TO 1985**

[Dec. 1984=100. Reflects prices for shipping a fixed set of commodities under specified and unchanging conditions]

COMMODITY	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>Total railroad freight.....</b>	<b>29.1</b>	<b>45.3</b>	<b>49.8</b>	<b>53.2</b>	<b>56.9</b>	<b>65.0</b>	<b>75.9</b>	<b>87.4</b>	<b>93.7</b>	<b>95.0</b>	<b>99.3</b>	<b>99.9</b>
Annual percent change <sup>1</sup> .....	8.8	13.3	9.9	6.8	7.0	14.2	16.8	15.2	7.2	1.4	4.5	.6
Coal.....	26.9	44.0	49.4	52.4	58.5	65.9	75.8	86.9	95.4	96.5	99.9	100.0
Farm products.....	29.7	45.2	50.1	52.4	56.1	64.6	75.8	86.3	92.4	94.0	98.7	99.0
Food and kindred products.....	28.9	44.8	49.2	51.9	55.8	63.5	75.2	87.4	93.7	94.8	99.1	100.0
Metallic ores.....	26.4	43.2	47.9	51.2	55.1	63.8	74.5	86.1	93.9	95.9	99.4	100.0
Chemicals and allied products.....	30.0	46.5	50.7	54.3	57.5	64.9	75.6	87.1	93.5	94.3	98.7	100.1
Nonmetallic minerals.....	25.4	40.5	46.0	48.3	52.0	60.6	72.2	85.4	93.3	94.6	98.9	100.1
Lumber and wood products.....	31.7	42.8	46.5	50.1	53.8	61.0	72.7	85.2	91.4	93.3	99.7	100.0
Transportation equipment.....	31.7	50.3	55.2	59.3	63.1	71.5	81.7	91.8	94.5	95.6	99.8	100.0
Pulp, paper, and allied products.....	31.5	47.1	51.0	53.9	57.0	64.7	76.7	88.5	94.7	95.6	99.9	100.0
Primary metal products.....	29.9	47.8	52.4	56.0	59.5	67.5	77.8	88.5	94.3	95.4	99.7	99.7
Stone, clay, concrete, glass products.....	26.9	43.0	47.3	50.9	55.0	62.8	74.2	86.5	93.4	94.4	98.8	100.0

<sup>1</sup> Change from prior year shown. For 1970, change from 1969.

Source: U.S. Bureau of Labor Statistics, *Producer Prices and Price Indexes*, monthly and annual.

## NO. 1054. RAILROAD ACCIDENT—DEATHS AND INJURIES: 1970 TO 1985

[Casualty data prior to 1975 cover only those cases where a person lost time from that person's job or other usual activity. Beginning 1975, covers cases with lost time, those requiring medical treatment beyond first aid, termination of employment, transfer to another job, loss of consciousness, and occupational illnesses. 1970, cases where death occurred more than 24 hours after the injury were classified as injuries; thereafter, they were classified as deaths. See also *Historical Statistics, Colonial Times to 1970*, series Q 385-387 and Q 400-401]

TYPE OF CASUALTY	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>Persons killed, total</b> .....	<b>2,225</b>	<b>1,560</b>	<b>1,530</b>	<b>1,646</b>	<b>1,429</b>	<b>1,417</b>	<b>1,284</b>	<b>1,119</b>	<b>1,073</b>	<b>1,247</b>	<b>1,036</b>
In high way grade crossing accidents <sup>1</sup> .....	1,440	978	944	1,021	834	788	697	580	542	610	537
Involving motor vehicles <sup>2</sup> .....	1,337	765	822	908	704	682	593	510	466	530	460
Passengers on trains.....	8	8	4	13	6	4	4	9	4	12	3
Railroad employees on duty.....	155	110	114	122	101	97	65	78	61	59	46
Trespassers and other.....	2,062	1,442	1,412	1,511	1,322	1,316	1,215	1,032	1,008	1,176	987
<b>Persons injured</b> .....	<b>21,327</b>	<b>54,306</b>	<b>67,867</b>	<b>72,545</b>	<b>74,126</b>	<b>82,246</b>	<b>53,003</b>	<b>40,275</b>	<b>38,816</b>	<b>38,570</b>	<b>34,304</b>
In high way grade crossing accidents <sup>1</sup> .....	3,336	4,168	4,649	4,256	4,172	3,662	3,121	2,508	2,467	2,723	2,508
Involving motor vehicles <sup>2</sup> .....	3,205	3,568	4,455	4,087	3,938	3,486	2,975	2,386	2,355	2,568	2,395
Passengers on trains.....	489	1,307	503	1,252	1,001	583	409	387	502	1,000	657
Railroad employees on duty.....	15,743	47,618	61,028	65,071	66,924	56,331	47,938	36,032	30,416	33,364	29,822
Trespassers and other.....	5,095	5,381	6,336	6,222	6,201	5,322	4,756	3,856	3,898	4,205	3,825

<sup>1</sup> Accidents at public crossings only.    <sup>2</sup> Excludes motorcycles.

Source: U.S. Federal Railroad Administration, *Accident Bulletin*, annual, and *Rail-Highway Crossing Accident/Incident and Inventory Bulletin*, annual.

## NO. 1055. PETROLEUM PIPELINE COMPANIES—CHARACTERISTICS: 1972 TO 1984

[Covers pipeline companies operating in interstate commerce and subject to jurisdiction of Interstate Commerce Commission from 1972 to 1976, and Federal Energy Regulatory Commission beginning 1977]

ITEM	Unit	1972	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Miles of pipeline, total.....	1,000.....	172.1	170.7	169.9	154.5	161.6	169.8	172.7	172.8	172.5	167.8	173.9
Gathering lines.....	1,000.....	42.3	40.4	37.6	34.7	36.5	36.9	36.3	36.6	35.6	31.0	36.0
Trunk lines.....	1,000.....	129.8	130.3	132.3	119.8	125.1	132.9	136.4	134.2	136.9	136.9	137.9
Total deliveries.....	Mill. bbl.....	8,847	9,391	9,742	10,019	10,768	11,140	10,600	10,223	10,181	10,310	10,224
Crude oil.....	Mill. bbl.....	5,510	5,729	5,996	6,089	6,550	6,728	6,405	6,070	5,968	6,020	5,671
Products.....	Mill. bbl.....	3,337	3,662	3,746	3,930	4,218	4,412	4,195	4,153	4,213	4,289	4,552
Total trunk line traffic.....	Bill. bbl-miles.....	2,697	2,892	2,918	3,895	3,723	3,577	3,405	3,554	3,442	3,328	3,406
Crude oil.....	Bill. bbl-miles.....	1,520	1,551	1,639	2,267	2,031	1,946	1,948	1,813	1,938	1,875	1,855
Products.....	Bill. bbl-miles.....	1,167	1,341	1,279	1,627	1,691	1,631	1,458	1,740	1,484	1,452	1,551
Carrier property value.....	Mill. dol.....	6,749	10,740	13,684	16,736	17,654	18,990	19,752	21,250	21,942	22,255	19,397
Operating revenues.....	Mill. dol.....	1,338	1,869	2,132	2,818	4,990	5,781	6,356	6,678	7,140	7,472	7,824
Net income.....	Mill. dol.....	415	456	595	478	1,696	1,648	1,912	2,031	2,162	2,353	2,545

Source: PennWell Publishing Co., Tulsa, Okla., *Oil and Gas Journal*, November 26, 1985 and earlier issues. (Copyright.)

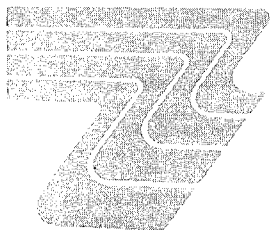
## NO. 1056. MAJOR INTERSTATE NATURAL GAS PIPELINE COMPANIES—SUMMARY: 1980 TO 1984

[Major natural gas pipeline companies are those whose combined sales for resale and natural gas transported or stored for a fee exceed 50 billion cubic feet. They account for more than 85 percent of all interstate natural gas]

ITEM	Unit	1980	1981	1982	1983	1984
<b>Sales</b> .....	Tril. cu. ft.....	(NA)	15.2	14.4	12.9	13.2
Residential.....	Tril. cu. ft.....	(NA)	.1	.3	.3	.3
Commercial, industrial.....	Tril. cu. ft.....	(NA)	1.1	1.2	1.0	1.2
For resale.....	Tril. cu. ft.....	(NA)	14.1	13.0	11.6	11.6
<b>Operating revenues</b> .....	Mill. dol.....	(NA)	48,465	56,203	55,792	56,326
From sales <sup>1</sup> .....	Mill. dol.....	(NA)	44,277	53,601	53,710	52,529
Residential.....	Mill. dol.....	(NA)	204	1,273	1,725	1,927
Commercial, industrial.....	Mill. dol.....	(NA)	3,365	4,453	4,233	5,180
For resale.....	Mill. dol.....	(NA)	40,677	47,776	47,661	45,268
From transportation of gas to others.....	Mill. dol.....	(NA)	1,011	1,259	1,787	1,923
Other.....	Mill. dol.....	(NA)	1,177	1,344	1,296	1,874
<b>Operation, maintenance expenses</b> .....	Mill. dol.....	33,303	41,242	49,989	49,391	48,411
Production.....	Mill. dol.....	29,844	36,706	44,449	43,516	42,407
Storage.....	Mill. dol.....	253	313	405	441	415
Transmission.....	Mill. dol.....	2,431	3,122	3,629	3,729	3,760
Distribution.....	Mill. dol.....	28	31	103	131	131
Administrative, general, and other.....	Mill. dol.....	947	1,070	1,402	1,576	1,697
<b>Pipeline mileage:</b> .....						
Transmission lines.....	1,000.....	(NA)	(NA)	(NA)	(NA)	183.4
Field lines.....	1,000.....	(NA)	(NA)	(NA)	(NA)	65.2
Storage.....	1,000.....	(NA)	(NA)	(NA)	(NA)	4.6

NA Not available.    <sup>1</sup> Includes other ultimate customers not shown separately.

Source: U.S. Energy Information Administration, *Statistics of Interstate Natural Gas Pipeline Companies*, annual.



## Transportation— Air and Water

This section presents statistics on civil air transportation, both passenger and cargo, and on water transportation, including inland waterways, oceanborne commerce, the merchant marine, cargo and vessel tonnages, and shipbuilding. Comparative data on various types of transportation carriers are presented in section 21.

Principal sources of these data are the annual *FAA Statistical Handbook of Aviation* issued by the Federal Aviation Administration (FAA); the annual *Waterborne Commerce of the United States* issued by the Corps of Engineers of the Department of the Army; the monthly and annual issues of *U.S. Waterborne Exports and General Imports*, and *U.S. Airborne Exports and General Imports*, the annual *Vessel Entrances and Clearances*, and the monthly *Highlights of U.S. Export and Import Trade*, issued by the Bureau of the Census. In addition, the Bureau of the Census in its commodity transportation survey (part of the census of transportation, taken every five years, for years ending in "2" and "7") provides data on the type, weight, and value of commodities shipped by manufacturing establishments in the United States, by means of transportation, origin, and destination.

Air transportation data are also presented annually by the Air Transport Association of America, Washington, DC in *Air Transport Facts and Figures*. Additional sources of data on water transportation include *A Statistical Analysis of the World's Merchant Fleets*, issued periodically by the U.S. Maritime Administration; *The Bulletin*, issued monthly by the American Bureau of Shipping, New York; and the *Annual Summary of Merchant Ships Completed in the World* and the *Register Book*, published by Lloyd's Register of Shipping, London, England.

**Civil aviation.**—Federal promotion and regulation of civil aviation have been carried out by the FAA and the Civil Aeronautics Board (CAB). The CAB promoted and regulated the civil air transportation industry within the United States and between the United States and foreign countries. The Board granted licenses to provide air transportation service, approved or disapproved proposed rates and fares, and approved or disapproved proposed agreements and corporate relationships involving air carriers. In December 1984, the CAB ceased to exist as an agency. Some of its functions were transferred to the Department of Transportation (DOT), as outlined below. The responsibility for investigation of aviation accidents resides with the National Transportation Safety Board.

The Office of the Secretary, DOT aviation activities include: negotiation of international air transportation rights, selection of U.S. air carriers to serve capacity controlled international markets, oversight of international rates and fares, maintenance of essential air service to small communities, and consumer affairs. DOT's Research and Special Programs Administration (RSPA) handles aviation information functions formerly assigned to CAB.

The principal activities of the FAA include: The promotion of air safety; controlling the use of navigable airspace; prescribing regulations dealing with the competency of airmen, airworthiness of aircraft, and air traffic control; operation of air route traffic control centers, airport traffic control towers, and flight service stations; the design, construction, maintenance, and inspection of navigation, traffic control, and communications equipment; and the development of general aviation.

The CAB published monthly and quarterly financial and traffic statistical data for the certificated route air carriers. RSPA continues these publications, including both certificated and non-certificated (commuter) air carriers. The FAA publishes annually data on the use of airway facilities; data related to the location of airmen, aircraft, and airports; the volume of activity in the field of non-air carrier (general aviation) flying; and aircraft production and registration.

General aviation comprises all civil flying (including such commercial operations as small demand air taxis, agriculture application, powerline patrol, etc.) but excludes certificated route air carriers, supplemental operators, large-aircraft commercial operators and commuter airlines.

**Air carriers and service.**—The CAB previously issued "certificates of public convenience and necessity" under Section 401 of the Federal Aviation Act of 1958 for scheduled and non-scheduled (charter) passenger services and cargo services. It also issued certificates under Section 418 of the Act to cargo air carriers for domestic all-cargo service only. The DOT Office of the Secretary now issues the certificates under a "fit, willing and able" test of air carrier operations. Carriers operating only 60 seat or less aircraft are given exemption authority to carry passengers, cargo and mail in scheduled and non-scheduled service under Part 298 of the DOT (formerly CAB) regulations. Ex-

emption authority carriers who offer scheduled passenger service to an essential air service point must meet the "fit, willing and able" test.

**Vessel shipments, entrances, and clearances.**—Shipments by dry cargo vessels comprise shipments on all types of watercraft, except tanker vessels; shipments by tanker vessels comprise all types of cargo, liquid and dry, carried by tanker vessels.

A vessel is reported as entered only at the first port which it enters in the United States, whether or not cargo is unloaded at that port. A vessel is reported as cleared only at the last port at which clearance is made to a foreign port, whether or not it takes on cargo. Army and Navy vessels entering or clearing without commercial cargo are not included in the figures.

**Units of measurement.**—Cargo (or freight) tonnage and shipping weight both represent the gross weight of the cargo including the weight of containers, wrappings, crates, etc. However, shipping weight excludes lift and cargo vans and similar substantial outer containers. Other tonnage figures generally refer to stowing capacity of vessels, 100 cubic feet being called 1 ton. Gross tonnage comprises the space within the frames and the ceiling of the hull, together with those closed-in spaces above deck available for cargo, stores, passengers, or crew, with certain minor exceptions. Net or registered tonnage is the gross tonnage less the spaces occupied by the propelling machinery, fuel, crew quarters, master's cabin, and navigation spaces. Substantially, it represents space available for cargo and passengers. The net tonnage capacity of a ship may bear little relation to weight of cargo. Deadweight tonnage is the weight in long tons required to depress a vessel from light water line (that is, with only the machinery and equipment on board) to load line. It is, therefore, the weight of the cargo, fuel, etc., which a vessel is designed to carry with safety.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

**Statistics for States and metropolitan statistical areas (MSAs).**—Data for States and MSAs may also be found in *State and Metropolitan Area Data Book 1986*. For cross-references, see Appendix V.

#### NO. 1057. CERTIFICATED ROUTE PASSENGER/CARGO AIR CARRIERS—NUMBER, OPERATING REVENUES, AND EXPENSES: 1970 TO 1985

[In millions of dollars, except number of carriers. 1970-1979, includes scheduled and charter operations. Beginning 1980, includes all cargo carriers. Minus sign (-) indicates loss. See also headnote, table 1058, and *Historical Statistics, Colonial Times to 1970*, series Q 591-603]

ITEM	1970	1975	1978	1979	1980	1981 <sup>1</sup>	1982 <sup>1</sup>	1983 <sup>1</sup>	1984 <sup>1</sup>	1985, <sup>1</sup> prel.
Number of air carriers.....	39	33	35	49	63	98	98	96	95	106
DOMESTIC										
Operating revenue.....	7,131	11,911	17,943	21,337	26,404	28,788	28,728	31,014	35,384	37,812
Passenger.....	6,359	10,290	15,753	18,930	23,317	25,504	25,440	27,346	31,437	33,329
Mail (including subsidy).....	205	247	334	413	530	591	572	537	580	741
Express and freight.....	472	702	1,107	1,184	1,582	1,659	1,605	1,582	1,690	1,529
Other.....	94	672	749	810	974	1,034	1,211	1,549	1,707	2,013
Operating expenses.....	7,128	11,781	16,948	21,213	26,409	29,051	29,478	31,186	33,812	36,578
Flying operations.....	2,098	3,869	5,577	7,867	11,029	12,037	11,529	11,370	12,161	12,675
Maintenance.....	1,127	1,595	2,125	2,421	2,758	2,821	2,709	2,878	3,176	3,590
General services and administration.....	3,157	5,050	7,556	9,120	10,545	11,943	12,825	14,274	15,625	17,317
Depreciation and amortization.....	745	883	1,213	1,352	1,560	1,723	1,876	2,107	2,223	2,320
Transport related.....	(NA)	383	477	453	517	526	537	554	627	677
Net operating income.....	3	129	995	123	-6	-264	-750	-171	1,582	1,034
INTERNATIONAL										
Operating revenue.....	1,913	3,063	4,332	5,191	6,543	8,390	8,435	7,183	7,975	8,304
Passenger.....	1,553	2,435	3,494	4,225	4,984	4,916	4,959	5,361	6,075	6,454
Mail (including subsidy).....	110	97	92	107	175	165	177	152	158	160
Express and freight.....	209	381	457	534	1,011	984	969	911	1,071	1,009
Other.....	41	150	288	325	372	325	309	737	671	681
Operating expenses.....	1,894	3,059	4,008	5,105	6,766	6,574	6,452	6,693	7,485	7,983
Flying operations.....	515	1,050	1,211	1,795	2,775	2,757	2,596	2,490	2,629	2,745
Maintenance.....	241	363	458	521	616	540	512	548	677	763
General services and administration.....	280	1,345	1,888	2,289	2,811	2,752	2,795	3,056	3,436	3,729
Depreciation and amortization.....	188	212	303	327	385	382	396	389	446	482
Transport related.....	(NA)	98	148	173	178	144	152	211	297	265
Net operating income.....	19	4	324	86	-223	-184	-17	470	490	321

NA Not available. <sup>1</sup> Excludes carriers that report system total only (operating revenues of \$1,033 million in 1981, \$902 million in 1982, \$415 million in 1983, \$692 million in 1984, and \$582 million (preliminary) in 1985; operating expenditures of \$986 million, \$874 million, \$352 million, \$650 million, and \$533 million (preliminary) in 1981, 1982, 1983, 1984, and 1985 respectively.

Source: U.S. Federal Aviation Administration. From data supplied by U.S. Civil Aeronautics Board, *CAB Air Carrier Financial Data*, annual.

# No. 1058. CERTIFICATED ROUTE AIR CARRIERS—SUMMARY: 1970 TO 1985

[As of Dec. 31 or for calendar years. See text, section 22. Operations between conterminous U.S., Puerto Rico, and outlying areas included with international. See also *Historical Statistics, Colonial Times to 1970*, series Q 577-590 and Q 624-633]

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985
Domestic operators <sup>1</sup>	Number	35	33	63	98	98	96	95	106
International operators <sup>1</sup>	Number	6	2						
Employment, total <sup>2</sup>	1,000	297	290	371	350	330	329	345	355
Pilots, copilots, and other flight personnel	1,000	33	32	39	37	35	35	37	40
Flight attendants	1,000	34	39	57	55	51	56	60	63
Mechanics	1,000	48	45	45	46	43	40	43	43
Aircraft and traffic servicing personnel	1,000	84	83	122	95	86	85	101	101
Other	1,000	98	91	108	117	113	103	104	108
Fixed-wing aircraft in operation <sup>3</sup>	Number	2,421	2,280	2,505	2,523	2,468	2,618	2,692	2,860
Turbojet	Number	2,041	2,022	2,336	2,295	2,377	2,492	2,572	2,740
Two-engine	Number	519	500	652	731	863	974	1,085	1,235
Three-engine	Number	631	961	1,311	1,284	1,260	1,286	1,277	1,277
Four-engine	Number	891	561	373	280	254	222	230	228
Turboprop	Number	316	193	163	223	88	118	110	110
Piston	Number	64	45	6	5	3	8	10	10
Average available seats: <sup>4</sup> <sup>5</sup>	Number	110.4	130.4	143.1	147.2	153.0	154.1	153.7	153.2
Domestic	Number	154.9	224.8	274.5	279.6	283.0	283.6	289.9	296.9
International	Number								
Average/hr. speed: <sup>6</sup>	Mi. per hr.	403	403	405	403	408	415	414	412
Domestic	Mi. per hr.	482	482	494	494	483	491	494	497
International	Mi. per hr.								
Jet fuel consumed: <sup>6</sup>	Mil. gal.	7,942	7,558	9,218	8,984	8,326	8,556	9,417	9,882
Domestic	Mil. gal.	2,241	1,949	2,093	1,826	1,942	1,970	2,053	2,243
International	Mil. gal.								
Revenue-miles flown: <sup>6</sup>	Millions	2,426	2,241	2,816	2,703	2,699	2,809	3,133	3,301
Domestic	Millions	2,027	1,909	2,471	2,396	2,387	2,483	2,786	2,932
International	Millions	399	332	345	307	312	326	347	369
Revenue passengers enplaned: <sup>6</sup>	Millions	169	205	297	286	294	319	345	380
Domestic	Millions	153	189	273	285	274	297	321	355
International	Millions	16	16	24	21	20	22	24	25
Revenue passenger-miles flown: <sup>6</sup>	Billions	104.1	131.7	200.8	198.7	210.1	226.9	243.7	270.1
Domestic	Billions	27.6	31.1	54.4	50.1	49.5	54.9	61.4	65.8
International	Billions								
Average passenger-mile rate: <sup>6</sup> <sup>7</sup>	Dollars	.060	.077	.113	.127	.121	.121	.128	.123
Domestic	Dollars	.050	.072	.075	.085	.100	.098	.099	.098
International	Dollars								
Express and freight revenue, ton-miles flown: <sup>6</sup>	Millions	3,515	4,796	5,742	5,686	5,482	6,092	6,566	6,006
Domestic	Millions	2,216	2,747	3,277	3,350	3,039	3,385	3,565	3,132
International	Millions	1,299	2,049	2,465	2,336	2,443	2,707	3,001	2,874
Mail, ton-miles flown: <sup>6</sup>	Millions	715	683	949	998	1,004	1,065	1,161	1,213
Domestic	Millions	549	426	393	376	400	415	457	443
International	Millions								
Accidents <sup>8</sup> (scheduled passenger service):	Number	39	29	15	25	15	23	14	17
Total <sup>8</sup>	Number	2	2	-	4	3	4	1	4
Fatal	Number	3	122	-	4	293	15	4	197
Fatalities	Number								

- Represents zero.

<sup>1</sup> The Airline Deregulation Act of 1978 lifted some restrictions on entering new markets. As a result there is no longer a clear distinction between domestic and international operators. Includes all cargo.

<sup>2</sup> Scheduled airlines only. Source: Air Transport Association of America, Washington, DC, *Air Transport Facts and Figures*, annual.

<sup>3</sup> Excludes those used for crew training and general utility purposes, or held for disposal. Beginning 1975, includes aircraft operated by the scheduled all-cargo certificated route air carriers.

<sup>4</sup> Seats per aircraft mile. Passenger seat-miles divided by revenue-miles flown in passenger service.

<sup>5</sup> Scheduled services of all certificated route air carriers; includes all cargo.

<sup>6</sup> Includes all cargo. Beginning 1979 includes very small amount of gasoline.

<sup>7</sup> Passenger revenues divided by revenue passenger-miles flown.

<sup>8</sup> Beginning 1975, includes all scheduled services of U.S. air carriers operating under 14 CFR 121.

<sup>9</sup> Includes mid-air collisions nonfatal to air carrier occupants (excluded in computation of fatal accidents).

Source: Except as noted, U.S. Federal Aviation Administration, *FAA Statistical Handbook of Aviation*, annual. Includes data from U.S. Civil Aeronautics Board and U.S. National Transportation Safety Board.

## NO. 1059. CERTIFICATED ROUTE AIR CARRIERS—SERVICE AND TRAFFIC: 1970 TO 1985

(In millions, except as indicated)

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985
<b>Revenue ton-miles, all services.....</b>	<b>20,186</b>	<b>23,534</b>	<b>34,551</b>	<b>34,656</b>	<b>33,923</b>	<b>35,051</b>	<b>36,011</b>	<b>41,278</b>	<b>43,974</b>
Revenue ton-miles, scheduled.....	18,166	22,186	33,390	32,603	31,949	32,849	35,756	38,697	41,252
Passenger <sup>1</sup> .....	13,171	16,281	26,202	25,519	24,889	25,963	28,183	30,512	33,590
U.S. mail.....	1,470	1,097	1,206	1,318	1,348	1,375	1,450	1,584	1,623
Foreign mail.....	10	12	18	24	26	29	30	35	33
Express.....	107	29	56	56	68	58	66	62	6,008
Freight.....	3,408	4,766	5,908	5,686	5,618	5,424	6,027	6,504	
Revenue ton-miles, charter <sup>2</sup> .....	2,020	1,348	1,161	2,053	1,974	2,201	2,255	2,581	2,721
Available ton-miles, all services.....	44,298	49,289	62,546	66,163	64,245	65,770	68,778	76,298	80,204
Ton-mile load factor (percent).....	45.6	47.7	55.2	52.4	52.8	53.3	55.3	54.1	54.8
<b>Scheduled services total:</b>									
Revenue passengers enplaned, scheduled.....	170	205	317	297	286	294	319	345	380
Revenue passenger-miles (bll.).....	132	163	262	255	249	260	282	305	336
Available seat-miles (bll.).....	265	303	416	493	425	440	465	515	547
Passenger load factor (percent).....	49.7	53.7	63.0	59.0	58.6	59.0	60.7	59.2	61.4
Revenue passenger-miles per gallon of fuel (number).....	15.4	18.7	24.3	24.1	24.8	26.1	27.4	26.9	28.3
Revenue plane-miles.....	2,418	2,241	2,791	2,816	2,703	2,699	2,809	3,134	3,301

<sup>1</sup> A passenger ton-mile represents 1 ton of passenger weight, including free and excess baggage, transported 1 mile.<sup>2</sup> Passenger and cargo.Source: Air Transport Association of America, Washington, DC, *Air Transport Facts and Figures*, annual. Data from Civil Aeronautics Board.

## NO. 1060. LARGE AIR TRAFFIC HUBS—SUMMARY: 1985

[In thousands, except number of airports. For calendar year. Air traffic hubs are cities and standard metropolitan statistical areas requiring aviation services. A large hub is one which enplanes at least one percent of the total enplaned revenue passengers in all services and all operations of U.S. certificated route air carriers]

AREA OR HUB	Air-ports <sup>1</sup>	AIRCRAFT DEPARTURES			Revenue passengers enplaned	ENPLANED REVENUE TONS		
		Total <sup>2</sup>	Scheduled			Total <sup>3</sup>	Freight and express	U.S. mail
			Number	Completed				
<b>Total, all areas .....</b>	<b>700</b>	<b>5,696.2</b>	<b>5,748.5</b>	<b>5,626.0</b>	<b>381,108.1</b>	<b>4,905.3</b>	<b>3,403.3</b>	<b>1,485.2</b>
Total, 26 large hubs .....	41	3,439.4	3,487.7	3,399.7	264,507.1	3,130.6	2,048.0	1,080.9
Atlanta, GA .....	1	283.8	286.5	282.3	20,678.1	291.5	167.2	124.3
Boston, MA .....	1	101.3	102.1	99.5	9,112.9	118.2	65.5	32.6
Charlotte, NC .....	1	88.8	89.7	88.4	5,102.7	33.6	18.5	15.1
Chicago, IL .....	3	322.2	330.2	320.0	22,752.0	402.8	291.4	111.3
Dallas-Ft. Worth, TX .....	2	258.9	260.8	257.3	20,935.8	147.1	92.3	54.8
Denver, CO .....	1	177.6	181.3	176.9	13,863.0	100.7	49.4	51.3
Detroit/Ann Arbor, MI .....	2	125.5	124.0	121.4	7,163.8	123.3	88.8	34.4
Honolulu, HI .....	1	55.8	60.2	53.0	5,979.7	106.6	91.0	15.6
Houston, TX .....	2	141.7	144.1	141.3	10,017.4	79.8	56.7	23.1
Las Vegas, NV .....	1	60.3	60.1	59.2	4,827.1	7.4	4.3	3.1
Los Angeles/Burbank/Long Beach, CA .....	4	212.8	216.0	209.9	18,532.3	295.1	230.2	64.9
Miami/Ft. Lauderdale, FL .....	2	115.3	116.0	112.9	10,669.1	135.5	102.9	32.4
Minneapolis/St. Paul, MN .....	1	112.0	113.8	111.1	7,250.3	101.5	48.2	53.0
Newark, NJ .....	1	146.1	148.7	144.6	14,272.6	89.0	64.7	24.3
New York, NY .....	2	207.0	212.8	204.2	18,665.9	342.3	226.1	116.1
Orlando, FL .....	1	63.4	60.9	59.9	4,848.8	27.2	19.7	7.4
Philadelphia, PA/Camden, NJ .....	1	73.8	74.3	72.9	4,761.0	81.5	35.9	45.5
Phoenix, AZ .....	1	101.4	102.1	100.8	6,713.3	23.4	11.2	12.2
Pittsburgh, PA/Wheeling, WV .....	1	109.4	110.1	108.8	7,002.3	36.1	9.9	26.2
St. Louis, MO .....	1	145.8	147.2	144.5	9,555.2	94.3	36.5	57.8
Salt Lake City, UT .....	1	57.6	58.2	57.3	4,137.0	35.0	16.7	18.3
San Diego, CA .....	1	49.5	50.0	49.2	3,930.9	17.2	10.0	7.2
San Francisco/Oakland, CA .....	2	155.4	158.7	153.4	12,955.8	233.1	176.7	58.3
Seattle/Tacoma, WA .....	3	83.4	86.6	82.6	5,724.2	107.5	73.0	33.8
Tampa/St. Petersburg/Clearwater/Lake-land, FL .....	2	61.5	62.2	60.9	4,240.6	25.4	14.5	10.9
Washington, DC .....	2	129.2	131.2	127.5	9,015.6	75.7	26.7	49.1

<sup>1</sup> Airports serving area or hub. Airports certificated under Federal Aviation Regulation (FAR Part 139) served by scheduled and unscheduled air carriers. <sup>2</sup> Includes completed scheduled and unscheduled. <sup>3</sup> Includes foreign mail, not shown separately.Source: U.S. Federal Aviation Administration, *Airport Activity Statistics*, annual.

## NO. 1061. CIVIL FLYING—SUMMARY: 1970 TO 1985

[As of Dec. 31 or for years ending Dec. 31, except as noted. See also *Historical Statistics, Colonial Times to 1970*, series Q 604-623]

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985
Airports in operation <sup>1</sup>	Number	11,261	13,251	15,161	15,476	15,831	16,029	16,075	16,318
Heliports	Number	790	1,524	2,336	2,507	2,712	2,918	2,980	3,120
Public	Number	4,260	4,573	4,814	4,798	4,805	4,812	4,806	5,861
Private	Number	7,001	8,678	10,347	10,678	11,026	11,217	11,269	10,457
Airports with runway lights	Number	3,554	4,171	4,738	4,795	4,844	4,878	4,889	4,941
Airports with paved runways	Number	3,905	4,865	5,833	5,826	6,223	6,441	6,529	6,865
Miles of Federal airways	1,000	324.7	403.9	411.1	415.1	366.2	364.4	364.8	366.5
Airport Improvement Program <sup>2</sup>	Mil. dol	50.5	339.9	639.0	442.6	407.1	721.5	733.3	841.9
Total civil aircraft	1,000	154.5	196.3	259.4	261.6	259.0	264.9	271.5	274.9
Active aircraft <sup>3</sup>	1,000	134.5	171.2	214.8	217.2	214.0	217.5	225.3	(NA)
Air carriers, total <sup>4</sup>	1,000	2.8	2.5	3.8	4.0	4.2	4.2	4.4	4.7
General aviation aircraft <sup>5</sup>	1,000	131.7	168.5	211.0	213.2	209.8	213.3	220.9	(NA)
Fixed-wing aircraft	1,000	18.4	24.6	31.7	33.5	33.2	34.5	35.6	(NA)
Multi-engine	1,000	64.6	82.6	107.9	108.0	105.5	107.2	109.9	(NA)
Single-engine:	1,000	44.9	54.4	60.5	59.9	57.7	59.2	62.0	(NA)
4-place and over	1,000	2.2	4.1	6.0	7.0	6.2	6.5	7.1	(NA)
3-place and less	1,000	1.6	2.8	5.0	5.0	6.2	5.9	6.3	(NA)
Rotorcraft <sup>6</sup>	1,000	2.2	4.1	6.0	7.0	6.2	6.5	7.1	(NA)
Balloons, blimps, gliders, etc.	1,000	1.6	2.8	5.0	5.0	6.2	5.9	6.3	(NA)
Airman certificates held	1,000	1,023	1,052	1,221	1,163	1,154	1,151	1,170	1,123
Pilot <sup>7</sup>	1,000	733	728	827	764	733	718	722	710
Held by women	Percent	4.0	5.2	6.4	6.2	6.2	6.1	6.1	6.1
Airline transport	1,000	34	43	70	70	73	75	79	83
Commercial	1,000	187	189	183	169	165	159	155	152
Private	1,000	304	306	357	329	322	319	320	311
Student	1,000	196	177	200	180	156	147	150	147
Nonpilot <sup>8</sup>	1,000	292	324	393	398	421	433	447	419
Ground technicians <sup>9</sup>	1,000	241	271	321	336	352	365	376	350
FAA employees: Total	Number	(NA)	58,732	55,340	44,840	46,897	46,993	47,178	47,245
Air traffic control specialists <sup>10</sup>	Number	(NA)	26,790	27,190	17,418	20,908	21,271	21,759	22,115
Full performance <sup>11</sup>	Number	(NA)	(NA)	16,317	8,401	9,078	15,458	11,031	11,672
Developmental <sup>12</sup>	Number	(NA)	(NA)	4,387	3,219	6,246	4,848	4,848	4,304
Assistants <sup>13</sup>	Number	(X)	(X)	(X)	(X)	1,166	1,367	1,475	1,485
Electronic technicians	Number	(NA)	9,149	8,971	8,432	8,031	7,633	7,229	6,856
Aviation safety inspectors	Number	(NA)	2,082	2,036	1,942	1,835	1,805	1,845	1,897
Engineers	Number	(NA)	2,597	2,436	2,274	2,238	2,313	2,419	2,457
Other	Number	(NA)	16,114	14,805	14,574	13,897	13,971	13,826	13,920
General aviation: <sup>5</sup>									
Hours flown	Million	26.0	32.0	41.0	40.7	36.5	35.2	36.1	(NA)
Fuel consumed: <sup>14</sup>									
Gasoline	Mil. gal	362	397	520	(NA)	448	428	462	(NA)
Jet fuel <sup>15</sup>	Mil. gal	415	510	766	(NA)	887	613	739	(NA)
Aircraft accidents: <sup>16</sup>									
General aviation <sup>5</sup>	Number	4,712	3,995	3,590	3,500	3,231	3,060	3,011	2,742
Fatal	Number	641	633	618	654	589	554	545	490
Rate per 100,000 aircraft hours flown	Rate	(NA)	2.20	1.70	1.78	1.84	1.78	1.73	1.53
Fatalities	Number	1,310	1,252	1,239	1,282	1,182	1,081	1,114	937
Air carrier <sup>15</sup>	Number	55	28	15	25	15	23	14	17
Fatal	Number	8	2	—	4	3	4	1	4
Rate per 1,000,000 aircraft miles flown	Rate	(NA)	.001	—	.001	.001	.001	.0003	.001
Fatalities	Number	146	122	—	4	233	15	4	197
Commuter air carriers <sup>16</sup>	Number	(NA)	48	38	31	27	19	21	17
Fatal	Number	(NA)	12	8	9	5	3	7	6
Rate per 1,000,000 aircraft miles flown	Rate	(NA)	.07	.04	.05	.02	.01	.02	.02
Fatalities	Number	(NA)	28	37	34	14	12	48	35
Air taxis <sup>17</sup>	Number	(NA)	152	171	157	132	140	146	153
Fatal	Number	(NA)	24	46	40	31	27	23	35
Rate per 100,000 aircraft hours flown	Rate	(NA)	.95	1.27	1.38	.95	1.05	.75	1.12
Fatalities	Number	(NA)	69	105	94	72	62	52	77
Hijacking incidents, worldwide	Number	83	25	40	32	31	33	22	35
U.S.-registered aircraft	Number	27	12	22	8	10	13	2	4
Successful <sup>18</sup>	Number	18	4	13	2	4	13	2	4
Foreign-registered aircraft	Number	56	13	18	24	21	15	19	31
Successful <sup>19</sup>	Number	37	3	9	13	12	6	16	18

- Represents or rounds to zero. NA Not available. X Not applicable. <sup>1</sup> Existing airports, heliports, seaplane bases, etc. recorded with FAA. Includes military airports with joint civil and military use. Includes U.S. outlying areas. Airport-type definitions: Public—publicly owned and under control of a public agency; private—owned by a private individual or corporation. May or may not be open for public use. <sup>2</sup> Fiscal year data. Does not include System Planning Grants. Includes U.S. outlying areas. 1970-1982 data are obligated Federal funds for the Airport Development Aid Program. 1983-1985 data are appropriated Federal funds under the Airport and Airway Improvement Act of 1982. <sup>3</sup> See text, section 22. <sup>4</sup> Includes autogyros; excludes air carrier helicopters. <sup>5</sup> Includes all active pilots. An active pilot is one with a pilot certificate and a valid medical certificate. Also includes pilots who hold only a helicopter, glider, or lighter than air certificate, not shown separately. <sup>6</sup> Includes dispatchers, control tower operators, flight navigators and engineers, and ground technicians—mechanics, parachute riggers, and ground instructors. <sup>7</sup> No medical examinations are required, therefore, data represent all certificates on record and include retired or otherwise inactive technicians. <sup>8</sup> Includes staff positions, managers, and supervisors not shown separately. <sup>9</sup> Serving in-flight service stations, towers, and centers. <sup>10</sup> Source: 1970 and 1975, U.S. Bureau of Mines; 1980-1984 FAA General Aviation Activity and Avionics Survey. <sup>11</sup> Includes kerosene-type and naphtha-type jet fuels. <sup>12</sup> Data from National Transportation Safety Board. <sup>13</sup> Beginning 1975, includes all scheduled service of U.S. Air Carriers operating under 14 CFR 121. <sup>14</sup> Beginning 1975, includes all nonscheduled service of the U.S. Air Carriers operating under 14 CFR 135. <sup>15</sup> Beginning in 1975, includes all nonscheduled service of the U.S. Air Carriers operating under 14 CFR 135. <sup>16</sup> Hijacker controls flight and reaches destination or objective.

Source: U.S. Federal Aviation Administration, *FAA Statistical Handbook of Aviation*, annual; and unpublished data. Includes data from U.S. Civil Aeronautics Board.

## No. 1062. AIRLINE COST INDEXES: 1970 TO 1985

[Covers U.S. major and national service carriers. Major carriers have operating revenues of \$1 billion or more; nationals have operating revenues from \$75 million to \$1 billion]

ITEM	INDEX (1972=100)								PERCENT OF CASH OPERATING EXPENSES <sup>1</sup>			
	1970	1975	1980	1981	1982	1983	1984	1985	1970	1975	1980	1985
<b>Composite</b> .....	<b>87.2</b>	<b>142.7</b>	<b>262.9</b>	<b>295.9</b>	<b>304.9</b>	<b>310.0</b>	<b>312.9</b>	<b>313.3</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Labor.....	82.9	129.8	211.3	231.9	249.7	268.5	288.3	275.2	46.0	40.9	35.2	34.8
Interest <sup>2</sup> .....	99.0	125.0	167.2	184.8	188.6	195.5	205.5	199.9	3.5	2.7	2.9	3.5
Fuel.....	94.3	250.8	770.3	892.2	841.8	762.0	729.1	691.0	12.8	18.9	29.7	22.4
Passenger food.....	94.7	120.8	153.6	165.3	162.9	168.9	174.5	165.1	3.9	3.4	2.9	3.2
Advertising and promotion.....	99.1	102.0	137.5	173.0	200.6	204.3	202.9	200.8	2.6	1.8	1.6	2.2
Landing fees.....	82.1	135.9	192.3	207.4	212.8	214.6	219.0	216.3	2.2	2.4	1.7	1.7
Passenger traffic commissions.....	80.1	154.5	316.5	394.1	406.2	436.0	476.4	474.1	2.9	3.8	5.2	7.9
All other.....	90.4	127.6	184.4	202.1	215.2	223.2	232.6	240.3	26.1	26.1	20.8	24.3

<sup>1</sup> Total operating expenses plus interest on long term debt, less depreciation and amortization. <sup>2</sup> Interest on debt.

Source: Air Transport Association of America, Washington, DC, *Air Transport, 1985*, annual; and unpublished data.

## No. 1063. COMMUTER/REGIONAL AIRLINE OPERATIONS—SUMMARY: 1975 TO 1985

[Calendar year data. Commuter/regional airlines operate primarily aircraft of predominately 60 passengers or less and 18,000 pounds payload of cargo serving short haul and small community markets. Represents operations within all North America by U.S. regional carriers]

ITEM	Unit	1975	1978	1979	1980	1981	1982	1983	1984	1985
Carriers.....	Number.....	235	252	258	237	277	245	218	221	179
Aircraft in service.....	Number.....	1,073	1,200	1,350	1,606	1,743	1,857	1,808	1,915	1,745
Airports served.....	Number.....	747	702	660	605	776	817	854	853	854
Revenue passengers enplaned.....	1,000.....	7,243	11,026	13,972	14,810	15,420	18,600	21,800	26,100	27,300
By 50 largest carriers.....	1,000.....	(NA)	8,422	11,349	12,167	13,000	16,328	14,293	21,916	23,522
Revenue passenger miles.....	Millions.....	733	1,279	1,724	1,917	2,090	2,610	3,240	4,170	4,720
Cargo pounds <sup>2</sup> .....	Millions.....	129	299	346	472	566	628	395	324	(NA)

NA Not available. <sup>1</sup> Beginning 1983, excludes a major jet express package carrier.

Source: Regional Airline Association, Washington, DC, *Annual Report*.

## No. 1064. U.S. AIRCRAFT SHIPMENTS: 1970 TO 1986

[Value in millions of dollars]

YEAR	TOTAL		CIVIL						MILITARY	
	Units	Value	Large transports <sup>1</sup>		General aviation <sup>2</sup>		Helicopters		Units	Value
			Units	Value	Units	Value	Units	Value		
1970.....	11,632	7,511	311	3,158	7,292	337	495	49	3,534	3,967
1975.....	16,918	9,355	285	4,006	14,056	1,033	838	266	1,739	4,050
1980.....	14,660	18,845	383	9,793	11,877	2,466	1,353	674	1,047	5,892
1981.....	11,860	20,157	388	9,731	9,457	2,920	953	636	1,062	6,870
1982.....	6,248	19,266	236	6,254	4,266	2,000	587	365	1,159	10,647
1983.....	4,407	25,232	262	8,493	2,691	1,470	401	269	1,053	15,000
1984.....	3,932	25,471	188	6,343	2,438	1,698	376	330	930	17,100
1985 <sup>3</sup> .....	3,785	31,560	275	9,550	2,050	1,450	390	360	1,070	20,200
1986 <sup>4</sup> .....	4,040	34,850	270	9,600	2,200	1,650	420	400	1,150	23,000

<sup>1</sup> Capacity over 70 seats. <sup>2</sup> Includes aircraft kits for exports. <sup>3</sup> Estimated. <sup>4</sup> Forecast.

Source: U.S. Department of Commerce, International Trade Administration, *U.S. Industrial Outlook, 1986*.

## No. 1065. EMPLOYMENT AND EARNINGS IN AIRCRAFT INDUSTRIES: 1970 TO 1985

[Annual averages of monthly figures]

SIC <sup>1</sup> code	ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985
(X)	<b>Employment, total</b> .....	1,000.....	664	607	763	769	732	720	746	811
3721	Aircraft.....	1,000.....	371	293	349	344	320	305	306	331
3724	Aircraft engines and engine parts.....	1,000.....	(NA)	126	163	163	149	140	140	148
3728	Aircraft equipment, n.e.c. <sup>2</sup> .....	1,000.....	(NA)	95	140	139	132	134	146	158
376	Guided missiles, space vehicles, and parts.....	1,000.....	(NA)	93	111	123	131	141	154	174
(X)	<b>Average weekly earnings<sup>3</sup>: Aircraft</b> .....	Dollars.....	169	256	404	444	485	(NA)	(NA)	(NA)
3724	Aircraft engines and parts.....	Dollars.....	NA	247	394	422	454	476	523	542
376	Guided missiles, space vehicles, and parts.....	Dollars.....	NA	245	378	410	447	481	498	510
(X)	<b>Average hourly earnings<sup>3</sup>: Aircraft</b> .....	Dollars.....	4.17	6.21	9.66	10.74	11.85	(NA)	(NA)	(NA)
3724	Aircraft engines and parts.....	Dollars.....	NA	6.04	9.42	10.41	11.16	11.61	12.40	12.85
376	Guided missiles, space vehicles, and parts.....	Dollars.....	NA	6.02	9.22	10.06	10.95	11.61	11.88	12.06

NA Not available. X Not applicable. <sup>1</sup> Standard Industrial Classification; see text, section 13. <sup>2</sup> N.e.c.=not elsewhere classified. <sup>3</sup> For production workers.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

## NO. 1066. AEROSPACE INDUSTRY—SUMMARY: 1975 TO 1986

[For calendar year, except employment and earnings annual averages of monthly figures. Includes Standard Industrial Classification Codes 372 and 376. Industry shipments refer to the total value of all products shipped by establishments classified in that industry. Product shipments refer to the total value of specific products shipped, irrespective of how the establishments which made them are classified]

ITEM	Unit	1975	1978	1979	1980	1981	1982	1983	1984 <sup>1</sup>	1985 <sup>2</sup>	1986 <sup>3</sup>
<b>INDUSTRY DATA</b>											
Value of shipments .....	Mil. dol	29,055	37,451	48,279	58,483	64,837	66,466	74,823	77,672	89,250	96,582
In 1982 dollars .....	Mil. dol	58,283	57,446	66,557	71,695	71,145	66,466	70,876	69,212	75,826	78,600
Employment, total .....	1,000	586	586	682	721	732	685	690	714	744	759
Production workers .....	1,000	312	314	374	387	377	349	341	351	368	376
Average hourly earnings .....	Dol	6.53	8.33	8.91	9.90	11.19	12.23	13.08	13.79	14.12	(NA)
Capital expenditures .....	Mil. dol	478	948	1,550	1,923	2,005	2,143	(NA)	(NA)	(NA)	(NA)
<b>PRODUCT DATA</b>											
Value of shipments .....	Mil. dol	26,834	33,629	43,663	53,296	58,968	60,024	66,229	68,682	79,340	85,930
In 1982 dollars .....	Mil. dol	54,316	51,648	60,296	65,479	64,762	60,024	62,631	61,058	67,205	69,699
Shipments price index .....	1982=100	49.4	64.5	71.8	80.8	90.8	100.0	105.8	112.3	117.7	123.0
<b>TRADE DATA</b>											
Value of imports .....	Mil. dol	747	919	1,395	3,180	4,325	4,242	3,455	5,072	5,740	6,028
Value of exports .....	Mil. dol	7,354	9,797	11,520	15,426	17,523	15,335	15,819	14,766	18,458	19,310

NA Not available. <sup>1</sup> Estimated except for shipments price index and trade data. <sup>2</sup> Estimated. <sup>3</sup> Forecast.

Source: U.S. Department of Commerce, International Trade Administration, *US Industrial Outlook, 1986*.

## NO. 1067. AEROSPACE—SALES, NEW ORDERS, AND BACKLOG: 1970 TO 1985

[Reported by establishments in which the principal business is the development and/or production of aerospace products]

ITEM	TOTAL (bil. dol.)						PERCENT U.S. GOVERNMENT					
	1970	1975	1980	1983	1984	1985	1970	1975	1980	1983	1984	1985
Net sales .....	24.8	29.5	58.4	83.5	88.9	100.1	66.3	58.6	45.7	58.8	62.7	63.4
Complete aircraft and parts <sup>1</sup> .....	10.4	11.3	22.6	27.3	28.3	34.2	54.8	46.9	29.6	(NA)	(NA)	(NA)
Aircraft engines and parts .....	3.1	3.4	6.9	8.6	9.1	9.7	61.5	47.0	(NA)	(NA)	(NA)	(NA)
Missiles and parts .....	5.4	6.3	8.4	12.7	13.6	16.7	96.9	93.7	(NA)	(NA)	(NA)	(NA)
Other products, services .....	5.9	8.5	20.5	34.8	38.0	39.5	(X)	(X)	(X)	(X)	(X)	(X)
Net, new orders .....	21.2	29.0	70.4	91.6	104.9	110.5	71.4	64.1	47.6	65.8	63.9	63.1
Backlog, Dec. 31 .....	24.7	35.0	90.5	116.6	132.5	142.8	52.1	63.2	41.1	63.6	64.6	64.3

NA Not available. X Not applicable. <sup>1</sup> Except engines sold separately.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MQ-37D.

## NO. 1068. AEROSPACE INDUSTRY SALES, BY PRODUCT GROUP AND CUSTOMER: 1970 TO 1985

[In billions of dollars. Due to reporting practices and tabulating methods, figures may differ from those in table 1067]

ITEM	CURRENT DOLLARS						CONSTANT (1972) DOLLARS <sup>2</sup>					
	1970	1975	1980	1983	1984	1985 <sup>1</sup>	1970	1975	1980	1983	1984	1985 <sup>1</sup>
<b>Total sales .....</b>	<b>25.6</b>	<b>29.7</b>	<b>54.7</b>	<b>80.0</b>	<b>83.5</b>	<b>96.2</b>	<b>27.4</b>	<b>23.5</b>	<b>26.4</b>	<b>28.9</b>	<b>27.8</b>	<b>30.5</b>
<b>PRODUCT GROUP</b>												
Aircraft, total .....	14.1	16.4	31.5	42.4	41.9	48.8	15.1	13.0	15.2	15.3	13.9	15.5
Civil <sup>3</sup> .....	4.4	6.5	16.3	12.4	10.7	13.6	4.7	5.1	7.9	4.5	3.6	4.3
Military .....	9.7	10.0	15.2	30.1	31.2	35.2	10.4	7.9	7.3	10.9	10.4	11.2
Missiles .....	4.1	3.8	6.5	10.3	11.3	12.3	4.4	3.0	3.1	3.7	3.8	3.9
Space .....	4.7	4.7	7.9	13.9	16.3	19.1	5.1	3.7	3.8	5.0	5.4	6.0
Related products and services <sup>4</sup> .....	2.6	4.8	8.8	13.3	13.9	16.0	2.6	3.8	4.3	4.8	4.6	5.1
<b>CUSTOMER GROUP</b>												
Aerospace, total .....	22.9	24.9	45.9	66.6	69.6	80.2	24.6	19.7	22.1	24.1	23.2	25.4
DOD <sup>5</sup> .....	14.6	13.1	22.8	41.6	46.0	52.7	15.7	10.4	11.0	15.0	15.3	16.7
NASA <sup>6</sup> and other agencies .....	3.0	2.8	4.1	5.9	6.1	6.3	3.2	2.2	2.0	2.1	2.0	2.0
Other customers <sup>7</sup> .....	5.3	8.9	19.0	19.2	17.5	21.2	5.6	7.1	9.2	6.9	5.8	6.7
Related products and services <sup>4</sup> .....	2.6	4.8	8.8	13.3	13.9	16.0	2.8	3.8	4.3	4.8	4.6	5.1

<sup>1</sup> Preliminary. <sup>2</sup> Based on aerospace composite price deflator supplied by the U.S. International Trade Administration. <sup>3</sup> All civil sales of aircraft (domestic and export sales of jet transports, commuters, business and personal aircraft and helicopters). <sup>4</sup> Electronics, software, and ground support equipment, plus sales of non-aerospace products which are produced by aerospace-manufacturing establishments and which use technology, processes, and materials derived from aerospace products.

<sup>5</sup> Department of Defense. <sup>6</sup> National Aeronautics and Space Administration. <sup>7</sup> Includes civil aircraft sales (see footnote 2), commercial space sales, all exports of military aircraft and missiles and related propulsion and parts.

Source: Aerospace Industries Association of America, Inc., Washington, DC, *Aerospace Facts and Figures, 1986/87*.

## NO. 1069. U.S. EXPORTS OF AEROSPACE VEHICLES AND EQUIPMENT: 1980 TO 1986

ITEM	NUMBER OF UNITS					VALUE (mil. dol.)				
	1980	1983	1984	1985 <sup>1</sup>	1986 <sup>2</sup>	1980	1983	1984	1985 <sup>1</sup>	1986 <sup>2</sup>
<b>Aerospace vehicles and equipment, total.....</b>	(NA)	(NA)	(NA)	(NA)	(NA)	<b>15,681</b>	<b>16,137</b>	<b>15,081</b>	<b>18,770</b>	<b>19,670</b>
Civil aircraft, total.....	4,434	1,089	1,045	996	1,024	8,378	5,681	4,147	6,645	6,747
Under 10,000 lbs. empty weight, new.....	3,150	497	407	447	461	657	189	146	168	180
10,000-33,000 lbs. empty weight, new.....	28	22	16	18	22	83	157	97	95	120
Over 33,000 lbs. empty weight, new.....	237	129	85	145	142	6,849	4,682	3,220	5,645	5,770
Rotary wing, new.....	525	216	233	170	180	299	232	234	183	170
Other new aircraft, n.e.c. <sup>3</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	5	122	157	210	160
Used, rebuilt, and converted.....	494	224	304	216	220	486	298	293	364	347
Military aircraft, total.....	502	936	381	360	375	949	1,845	1,581	2,228	2,300
Aircraft engines and parts, total.....	(NA)	(NA)	(NA)	(NA)	(NA)	1,887	2,736	2,984	3,168	3,453
Internal combustion and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	270	250	269	283	298
Military, new and used.....	110	139	90	80	75	4	10	16	10	12
Non-military, new.....	1,048	915	995	860	850	25	20	16	17	16
Non-military, used.....	1,365	863	1,188	1,230	1,100	17	16	20	22	20
Parts, n.e.c. <sup>3</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	224	205	217	234	250
Turbines and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	1,616	2,486	2,715	2,685	3,155
Military, new or used.....	254	341	308	310	340	59	162	125	159	175
Non-military, new and used.....	1,393	1,440	1,264	2,370	2,400	514	914	1,021	763	780
Parts, n.e.c. <sup>3</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	1,044	1,409	1,569	1,963	2,200
Missile engines and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	29	52	28	36	40
Propellers and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	57	42	37	52	60
Landing gear and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	92	58	124	115	130
Aircraft parts and accessories, n.e.c. <sup>3</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	3,436	4,453	4,931	5,444	5,700
Guided missiles and space vehicles.....	(NA)	(NA)	(NA)	(NA)	(NA)	327	443	289	320	330
Flight simulators.....	(NA)	(NA)	(NA)	(NA)	(NA)	54	124	117	80	100
Space vehicle equipment, n.e.c. <sup>3</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	392	499	646	450	550
Avionics.....	(NA)	(NA)	(NA)	(NA)	(NA)	80	194	198	232	260

NA Not available. <sup>1</sup> Estimated <sup>2</sup> Forecast. <sup>3</sup> N.e.c. means not elsewhere classified.Source: U.S. Dept. of Commerce, International Trade Administration, *U.S. Industrial Outlook*, annual.

## NO. 1070. U.S. RECEIPTS AND PAYMENTS FOR INTERNATIONAL TRANSPORTATION: 1970 TO 1985

[In millions of dollars. Data are international transportation transactions recorded for balance of payment purposes (see table 1386). Receipts include freight on exports carried by U.S.-operated carriers and foreign carrier expenditures in U.S. ports. Payments include freight on imports carried by foreign carriers and U.S. carrier port expenditures abroad. Freight on exports carried by foreign carriers is excluded since such payments are directly or indirectly for foreign account. Similarly, freight on U.S. imports carried by U.S. carriers is a domestic rather than an international transaction. Minus sign (-) indicates excess of payments over receipts. See *Historical Statistics, Colonial Times to 1970*, series U 3 and U 10, for totals]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
<b>Total receipts.....</b>	<b>3,669</b>	<b>6,879</b>	<b>9,739</b>	<b>12,127</b>	<b>14,208</b>	<b>15,671</b>	<b>15,491</b>	<b>15,627</b>	<b>16,840</b>	<b>16,961</b>
Ocean transportation.....	2,256	4,065	5,587	6,868	7,757	8,028	7,685	8,133	8,849	8,797
Export freight earnings.....	604	1,183	1,621	2,091	2,641	2,803	2,549	2,881	2,702	2,846
Freight earnings on shipments between foreign countries.....	209	328	412	480	588	561	555	575	563	574
Port expenditures.....	1,406	2,481	3,511	4,235	4,435	4,552	4,468	4,562	5,457	5,245
Charter hire.....	37	73	43	62	93	112	113	115	127	132
Air transportation.....	1,240	2,515	3,772	4,811	5,946	7,160	7,326	7,023	7,473	7,685
Export freight earnings.....	187	390	507	577	742	752	762	576	645	706
Passenger fares.....	541	1,039	1,603	2,156	2,591	3,111	3,174	3,037	3,028	2,989
Port expenditures.....	512	1,086	1,662	2,078	2,613	3,297	3,390	3,410	3,800	3,990
Other transportation.....	173	299	380	448	505	483	480	471	518	479
<b>Total payments.....</b>	<b>4,058</b>	<b>7,971</b>	<b>12,019</b>	<b>14,090</b>	<b>15,397</b>	<b>16,961</b>	<b>16,482</b>	<b>17,706</b>	<b>21,337</b>	<b>23,250</b>
Ocean transportation.....	2,380	4,465	7,175	8,379	8,447	8,900	8,307	8,624	10,560	11,262
Import freight payments.....	1,444	3,047	5,295	6,084	5,809	6,073	5,562	5,827	7,755	8,354
Passenger fares.....	245	278	252	258	268	287	290	305	306	320
Port expenditures.....	316	755	1,255	1,607	1,905	2,054	1,957	1,980	1,972	2,052
Charter hire.....	375	385	373	430	465	486	498	512	528	536
Air transportation.....	1,581	3,346	4,600	5,448	6,705	7,785	7,938	8,842	10,542	11,740
Import freight payments.....	115	246	448	506	562	671	725	1,066	1,633	1,685
Passenger fares.....	970	1,985	2,644	2,926	3,339	4,200	4,482	5,179	6,197	7,002
Port expenditures.....	498	1,115	1,508	2,016	2,804	2,914	2,731	2,597	2,712	3,053
Other transportation.....	97	160	244	263	245	276	237	240	235	248
<b>Receipts balance.....</b>	<b>-389</b>	<b>-1,092</b>	<b>-2,280</b>	<b>-1,963</b>	<b>-1,189</b>	<b>-1,290</b>	<b>-991</b>	<b>-2,079</b>	<b>-4,497</b>	<b>-6,289</b>

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, June issues, and unpublished data.

## No. 1071. EXPORTS AND IMPORTS, BY METHOD OF TRANSPORT: 1960 TO 1985

[Exports are free alongside ship (f.a.s.) value (see text, section 30) for all years; imports are f.a.s. value for 1975 and 1980 and customs value for other years. Export data include both domestic and foreign; import data for general imports only. For details, see source]

ITEM	Unit	EXPORTS						IMPORTS					
		1960	1970	1975	1980	1984	1985	1960	1970	1975	1980	1984	1985
All methods <sup>1</sup> .....	Bil. dol.....	20.6	43.2	107.6	220.7	217.9	213.1	14.7	40.0	88.9	240.8	325.7	345.3
Vessel.....	Bil. dol.....	13.1	24.6	63.4	120.9	102.0	91.7	11.1	24.8	63.5	165.1	193.0	208.4
Air.....	Bil. dol..... (NA)	6.1	15.2	46.1	53.4	52.3	(NA)	3.4	8.9	28.0	52.3	51.3	
Shipping weight: Vessel.....	Bil. lb.....	248.5	480.5	538.5	801.8	750.0	700.5	398.1	598.4	855.3	976.8	832.2	797.0
Air.....	Bil. lb..... (NA)	.9	1.4	2.3	2.2	1.8		(NA)	.6	1.1	1.3	3.1	2.9

NA Not available. <sup>1</sup> Includes types other than vessel and air.

Source: U.S. Bureau of the Census, *Highlights of U.S. Export and Import Trade*, FT 990, monthly.

## No. 1072. WATERBORNE COMMERCE—CARGO TONNAGE: 1960 TO 1984

[In millions of short tons. Includes Puerto Rico and outlying areas. Import and export figures differ slightly from those shown in tables 1078 and 1079 due to minor differences in basic concepts. See source for details. See also *Historical Statistics, Colonial Times to 1970*, series Q 530-541]

CLASS	1960	1970	1975	1978	1979	1980	1981	1982	1983	1984
<b>Net total</b> .....	<b>1,100</b>	<b>1,532</b>	<b>1,695</b>	<b>2,021</b>	<b>2,074</b>	<b>1,999</b>	<b>1,941</b>	<b>1,777</b>	<b>1,708</b>	<b>1,836</b>
<b>Domestic commerce</b> <sup>1</sup> .....	<b>761</b>	<b>951</b>	<b>946</b>	<b>1,075</b>	<b>1,080</b>	<b>1,077</b>	<b>1,054</b>	<b>957</b>	<b>957</b>	<b>1,033</b>
Coastwise, between ports.....	209	230	232	305	305	330	322	311	310	306
Great Lakes, between ports.....	155	157	129	143	144	115	115	72	83	98
Intra: Seaports, Great Lakes ports, and inland waterways ports.....	104	81	78	90	93	94	93	76	73	81
Ports and river ports <sup>2</sup> .....	292	474	507	538	539	524	498	498	490	546
<b>Foreign commerce</b> .....	<b>339</b>	<b>581</b>	<b>749</b>	<b>946</b>	<b>993</b>	<b>922</b>	<b>887</b>	<b>820</b>	<b>751</b>	<b>803</b>
Imports, through seaports.....	198	313	455	616	608	502	457	403	372	409
Imports, Great Lakes ports.....	13	26	21	27	25	16	20	14	16	18
Exports, through seaports.....	105	206	237	259	312	359	366	367	331	335
Exports, Great Lakes ports.....	23	36	35	44	49	45	43	36	32	41

<sup>1</sup> Includes traffic among ports of outlying areas. <sup>2</sup> Represents traffic mainly utilizing inland waterways.

## No. 1073. FREIGHT CARRIED ON INLAND WATERWAYS, BY SYSTEM: 1960 TO 1984

[In billions of ton-miles. Excludes Alaska and Hawaii, except as noted. Includes waterways, canals, and connecting channels]

SYSTEM	1960	1970	1975	1978	1977	1978	1979	1980	1981	1982	1983	1984
<b>Total</b> .....	<b>220.3</b>	<b>318.6</b>	<b>342.2</b>	<b>372.9</b>	<b>368.3</b>	<b>409.3</b>	<b>424.6</b>	<b>406.9</b>	<b>410.2</b>	<b>351.2</b>	<b>359.0</b>	<b>399.0</b>
Atlantic coast waterways.....	28.6	28.6	31.8	32.1	30.4	30.5	31.9	30.4	28.3	25.4	22.5	24.7
Gulf coast waterways.....	16.9	28.6	30.8	34.3	37.6	37.1	38.1	38.6	35.1	31.8	32.4	36.7
Pacific coast waterways <sup>1</sup> .....	6.0	8.4	9.7	11.3	12.8	13.6	14.1	14.9	14.4	12.8	13.2	20.5
Mississippi River system <sup>2</sup> .....	69.3	138.5	170.7	189.5	196.9	209.3	218.8	225.9	234.4	218.0	223.0	234.6
Great Lakes System <sup>3</sup> .....	99.5	114.5	99.2	105.6	90.7	118.9	121.7	96.0	98.0	63.2	67.9	82.5

<sup>1</sup> Includes Alaskan waterways. <sup>2</sup> Comprises main channels and all tributaries of the Mississippi, Illinois, Missouri, and Ohio Rivers. <sup>3</sup> Does not include traffic between foreign ports.

Source of tables 1072 and 1073: U.S. Army Corps of Engineers, *Waterborne Commerce of the United States*, annual.

## No. 1074. FEDERAL EXPENDITURES FOR CIVIL FUNCTIONS OF THE CORPS OF ENGINEERS, UNITED STATES ARMY: 1960 TO 1985

[In millions of dollars. For fiscal years ending in year shown, see text, section 9. These expenditures represent the work of the Corps of Engineers to plan, design, construct, operate, and maintain civil works projects and activities, particularly in the management and improvement of rivers, harbors, and waterways for navigation, flood control, and multiple purposes. The amounts listed below do not include the expenditure of funds contributed, advanced, or reimbursed by other government agencies or local interests. Includes Puerto Rico and outlying areas]

FISCAL YEAR	Total program <sup>1</sup>	Navi-gation	Flood control	Multi-ple purpose	FISCAL YEAR	Total program <sup>1</sup>	Navi-gation	Flood control	Multi-ple purpose
1960.....	873	310	293	270	1980.....	3,061	1,225	1,228	551
1965.....	1,169	426	447	283	1981.....	3,198	1,339	1,273	527
1970.....	1,128	398	379	331	1982.....	2,940	1,331	1,083	453
1975.....	2,070	694	904	439	1983.....	2,959	1,290	1,088	482
1977.....	2,340	792	918	584	1984.....	3,085	1,383	1,154	445
1978.....	2,645	951	1,069	583	1985.....	2,956	1,234	1,187	419
1979.....	2,934	1,083	1,218	577					

<sup>1</sup> Includes expenditures which are not associated with a specific purpose (e.g., headquarters staff supervision, management, and administration activities, and some research and development activities).

Source: U.S. Army Corps of Engineers, *Report of Civil Works Expenditures by State and Fiscal Year*, annual.

## NO. 1075. FREIGHT CARRIED ON MISSISSIPPI RIVER SYSTEM: 1960 TO 1984

[Net traffic. Comprises main channels and all tributaries of the Mississippi, Illinois, Missouri, and Ohio rivers]

ITEM	Unit	1960	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
<b>Total</b> .....	<b>Mill. sh. tons</b> .....	<b>234</b>	<b>391</b>	<b>453</b>	<b>498</b>	<b>537</b>	<b>553</b>	<b>582</b>	<b>584</b>	<b>589</b>	<b>540</b>	<b>519</b>	<b>544</b>
Inland.....	Mill. sh. tons.....	188	297	330	346	352	355	371	366	366	347	352	387
Coastwise.....	Mill. sh. tons.....	22	44	30	26	30	32	33	42	45	35	39	37
Foreign:													
Imports.....	Mill. sh. tons.....	11	17	46	67	96	99	106	91	80	57	32	34
Exports.....	Mill. sh. tons.....	13	34	48	60	60	67	73	86	98	101	96	86
<b>Total</b> .....	<b>Bill. ton-miles</b> .....	<b>69.3</b>	<b>138.5</b>	<b>170.7</b>	<b>189.5</b>	<b>196.8</b>	<b>209.3</b>	<b>218.8</b>	<b>228.9</b>	<b>234.4</b>	<b>218.0</b>	<b>223.1</b>	<b>234.6</b>
Inland.....	Bill. ton-miles.....	62.4	125.9	151.3	164.8	166.9	176.5	184.4	193.5	199.0	187.9	198.7	210.2
Coastwise.....	Bill. ton-miles.....	3.2	4.9	4.5	4.1	4.8	5.4	5.7	7.4	7.7	6.2	6.7	6.0
Foreign:													
Imports.....	Bill. ton-miles.....	1.8	2.8	8.0	11.7	16.2	16.8	17.6	15.1	13.3	8.8	5.1	5.3
Exports.....	Bill. ton-miles.....	1.9	4.9	6.9	8.8	8.8	10.1	11.1	13.0	14.4	15.1	14.6	13.1

<sup>1</sup> Total reflects adjustment not available by type of traffic.Source: U.S. Army Corps of Engineers, *Waterborne Commerce of the United States*, annual.

## NO. 1076. U.S. FREIGHT CARRIED ON GREAT LAKES SYSTEM: 1960 TO 1984

[In billions of ton-miles]

ITEM	1960	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
<b>Total</b> .....	<b>99.5</b>	<b>114.5</b>	<b>107.5</b>	<b>99.2</b>	<b>105.6</b>	<b>90.7</b>	<b>118.9</b>	<b>121.7</b>	<b>96.0</b>	<b>98.0</b>	<b>63.2</b>	<b>68.0</b>	<b>82.4</b>
Domestic.....	80.6	80.1	79.7	69.2	71.3	53.0	76.8	78.5	62.3	62.7	35.9	43.5	50.2
Lake-wise.....	79.7	79.4	78.9	68.5	70.7	52.4	76.3	78.0	61.7	62.1	35.4	43.0	49.8
Internal.....	.7	.6	.6	.6	.5	.4	.4	.4	.5	.5	.4	.4	.3
Local <sup>1</sup> .....	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
Foreign.....	18.9	34.3	27.8	29.9	34.3	37.7	42.1	43.1	33.7	35.3	27.3	24.3	32.2
Canadian.....	13.8	23.8	19.4	20.7	23.7	23.1	23.1	26.9	23.6	25.8	18.2	15.9	19.0
Overseas.....	5.1	10.5	8.4	9.3	10.7	14.7	19.0	16.2	10.1	9.5	9.1	8.4	13.2

<sup>1</sup> Includes coastwise traffic.Source: U.S. Army Corps of Engineers, *Waterborne Commerce of the United States*, annual.NO. 1077. DOMESTIC AND FOREIGN WATERBORNE COMMERCE, BY TYPE OF COMMODITY:  
1970 TO 1984

[In millions of short tons. Domestic trade includes all commercial movements between U.S. ports and on inland rivers, Great Lakes, canals, and connecting channels of U.S., Puerto Rico, and Virgin Islands. See also headnote, table 1072]

COMMODITY	1970		1975		1980		1984			
	Total	Domestic	Total	Domestic	Total	Domestic	Total	Domestic	Foreign	
									Imports	Exports
<b>Net total</b> .....	<b>1,531.7</b>	<b>950.7</b>	<b>1,695.0</b>	<b>946.3</b>	<b>1,998.9</b>	<b>1,077.5</b>	<b>1,836.0</b>	<b>1,032.7</b>	<b>427.1</b>	<b>376.2</b>
Petroleum products <sup>1</sup> .....	394.7	287.3	407.6	328.5	423.2	339.2	398.8	278.9	85.7	34.2
Gasoline.....	89.3	88.7	95.7	92.2	87.3	81.0	89.9	76.9	12.6	.4
Distillate fuel oil.....	78.8	76.9	93.4	87.0	74.6	72.1	78.3	60.5	14.7	3.1
Residual fuel oil.....	170.5	78.8	172.1	111.5	188.0	141.3	148.3	95.2	40.9	12.2
Crude petroleum.....	210.5	116.3	333.8	77.9	480.2	174.2	352.4	180.7	171.7	-
Coal and lignite.....	225.4	154.1	219.0	152.8	256.4	164.1	271.8	189.5	1.0	81.3
Nonmetallic minerals <sup>1 2</sup> .....	166.6	132.6	159.2	123.3	157.1	111.6	145.6	103.6	22.1	19.9
Sand and gravel <sup>3</sup> .....	78.4	73.9	72.4	67.9	65.1	60.8	62.6	58.6	2.2	1.8
Limestone.....	42.0	34.1	37.8	29.1	34.2	23.9	23.9	21.3	.6	2.0
Phosphate rock.....	16.6	5.8	20.1	9.4	23.7	9.5	19.1	8.0	-	11.1
Iron and concentrates.....	129.3	75.2	121.4	69.3	98.4	64.9	76.1	52.3	18.3	5.5
Farm products <sup>1</sup> .....	90.4	28.5	144.3	43.1	216.8	63.4	211.5	89.4	5.9	136.2
Corn.....	27.2	11.7	56.8	20.8	98.6	30.8	84.0	31.4	-	52.6
Wheat.....	25.0	5.8	44.4	10.4	53.4	14.3	63.5	16.9	-	46.6
Soybeans.....	21.2	8.3	23.2	9.4	39.6	16.1	35.7	15.5	-	20.2
Chemicals and allied products.....	62.0	39.7	66.5	40.0	91.9	49.4	110.4	54.7	25.7	30.0
Food and kindred products.....	35.0	11.0	35.5	13.3	54.8	20.4	52.2	18.2	13.8	20.2
Lumber and wood products <sup>4</sup> .....	49.9	27.3	48.2	24.7	52.0	22.7	45.7	19.8	4.1	21.8
Primary metal products.....	42.4	10.8	38.1	9.3	26.9	9.0	35.3	8.4	25.5	1.4
Waste and scrap.....	25.9	16.0	28.0	18.8	31.1	16.8	33.2	21.1	.4	11.7
Other.....	99.7	51.9	93.5	45.5	108.1	39.8	102.5	35.5	53.0	14.0

- Represents zero.

<sup>1</sup> Includes commodities not shown separately.<sup>2</sup> Excludes fuels.<sup>3</sup> Includes crushed rock.<sup>4</sup> Excludes furniture.Source: U.S. Army Corps of Engineers, *Waterborne Commerce of the United States*, annual.

### NO. 1078. WATERBORNE IMPORTS AND EXPORTS—CARGO TONNAGE, BY FLAG OF CARRIER VESSEL: 1970 TO 1985

(In millions of short tons, except percent. Excludes commodities classified for security reasons as "Special Category" (exports only) and exports by Dept. of Defense (grant-aid shipments), and merchandise shipped in transit through the U.S. See Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series Q 524-529)

ITEM	DRY CARGO							TANKER CARGO						
	1970	1975	1980	1982	1983	1984	1985	1970	1975	1980	1982	1983	1984	1985
Total trade.....	358	387	497	443	445	490	472	181	311	392	334	283	298	274
Percent by U.S. flag.....	6.4	5.5	4.8	4.7	5.2	4.8	5.4	4.2	5.2	2.6	4.8	7.4	4.3	3.8
Imports, total.....	138	137	134	112	116	148	156	161	291	354	264	251	285	239
U.S. flag.....	10	10	10	9	10	10	11	6	13	9	14	20	11	8
Foreign flag.....	128	127	124	103	106	138	145	156	278	345	250	231	254	231
Exports, total.....	220	250	362	331	329	342	316	20	21	39	70	32	33	35
U.S. flag.....	13	11	14	12	13	12	13	2	3	1	2	1	1	2
Foreign flag.....	207	239	348	319	316	330	303	18	18	38	68	31	32	33

Source: U.S. Bureau of the Census, *U.S. Waterborne Exports and General Imports*, FT 985, annual; and unpublished data.

### NO. 1079. WATERBORNE IMPORTS AND EXPORTS—CARGO TONNAGE AND VALUE, BY COASTAL DISTRICT: 1970 TO 1985

(Exports are free alongside ship (f.a.s.) value for all years; Imports are f.a.s. value for 1975 and 1980 and customs value for other years see text, section 30. Includes commodities classified for security reasons as "Special Category" (exports only) and exports by Dept. of Defense (grant-aid shipments), and merchandise shipped in transit through the U.S. See Appendix III)

DISTRICT	CARGO TONNAGE (mil. sh. tons)							VALUE (bil. dol.)						
	1970	1975	1980	1982	1983	1984	1985	1970	1975	1980	1982	1983	1984	1985
Imports:														
Atlantic.....	219	232	183	172	171	197	190	15.0	34.7	71.5	72.2	75.5	82.6	94.4
Gulf.....	47	134	243	160	140	155	141	2.9	14.3	56.4	40.8	32.5	35.7	32.8
Pacific.....	31	64	56	38	44	47	51	5.5	15.2	45.0	48.2	53.9	70.6	90.4
Great Lakes.....	26	22	16	14	16	18	17	1.3	1.7	1.9	2.0	2.0	2.7	2.8
Exports:														
Atlantic.....	79	80	117	119	87	82	93	11.9	28.7	51.0	50.2	41.2	37.5	35.2
Gulf.....	78	106	163	172	164	167	144	6.9	21.4	41.5	41.0	36.0	37.3	31.8
Pacific.....	48	49	78	74	78	86	81	4.1	10.0	25.2	25.5	25.1	27.2	25.8
Great Lakes.....	36	35	45	36	32	41	34	1.4	2.8	4.6	3.2	2.6	3.4	2.4

Source: U.S. Bureau of the Census, *U.S. Waterborne Exports and General Imports*, FT 985, annual.

### NO. 1080. CONTAINERIZED CARGO—TONNAGE AND TWENTY-FOOT EQUIVALENT UNITS (TEU'S), BY SELECTED U.S. PORTS: 1982 AND 1983

[Based on reports filed for any vessel of 1,000 or more gross registered tonnage carrying 25 or more 8x6x20 foot TEU cargo container/trailer units]

PORT	LONG TONS (1,000)						TEU'S (1,000)					
	Total		Import		Export		Total		Import		Export	
	1982	1983	1982	1983	1982	1983	1982	1983	1982	1983	1982	1983
Total <sup>1</sup> .....	37,330	39,922	17,390	20,614	19,940	19,308	3,946	4,147	1,952	2,274	1,994	1,873
New York.....	7,186	7,787	4,350	5,345	2,836	2,442	757	795	463	553	294	242
Los Angeles.....	3,605	4,345	1,615	2,120	1,990	2,225	404	481	211	267	193	214
Oakland.....	3,259	2,961	1,004	1,033	2,255	1,928	388	336	142	134	246	202
Seattle.....	3,195	3,707	1,465	1,726	1,710	1,981	369	430	217	251	152	179
Long Beach.....	3,088	3,884	1,798	2,561	1,290	1,323	364	453	242	328	122	125
Baltimore.....	2,454	2,813	1,038	1,365	1,416	1,448	246	279	100	130	146	149
Norfolk.....	1,714	1,636	516	579	1,198	1,057	178	170	51	55	127	115
Houston.....	1,705	1,585	800	745	905	840	146	127	60	59	86	68
Charleston.....	1,299	1,566	439	602	860	964	140	160	46	62	94	98
Miami.....	1,316	1,155	438	530	878	625	130	105	42	45	88	57
Savannah.....	901	1,188	394	532	507	656	107	136	52	67	55	69
San Francisco.....	1,011	874	277	254	734	620	93	86	25	25	68	61
New Orleans.....	1,024	993	469	483	555	510	92	84	37	40	55	44
San Juan.....	694	599	316	247	378	352	64	70	37	25	47	45
Philadelphia.....	874	717	655	536	219	181	75	63	51	43	24	20
Portland, Oregon.....	465	695	106	184	379	511	41	56	11	17	30	39

<sup>1</sup> Includes other ports, not shown separately.

Source: U.S. Maritime Administration, *Containerized Cargo Statistics*, annual.

**NO. 1081. VESSELS ENTERED AND CLEARED IN FOREIGN TRADE—NET REGISTERED TONNAGE, BY FLAG OF CARRIER VESSEL: 1961 TO 1985**

[In millions of net tons, except as indicated. Includes Puerto Rico and Virgin Islands. Seaports comprise all ports except Great Lakes ports. See also *Historical Statistics, Colonial Times to 1970*, series Q 507-517]

YEARLY AVERAGE OR YEAR	ALL PORTS					SEAPORTS					
	Number of vessels	Tonnage, all vessels				Tonnage, all vessels			Tonnage, with cargo		
		Total	U.S.	Per- cent U.S.	Foreign	Total	U.S.	Foreign	Total	U.S.	Foreign
Entered:											
1961-1965	49,670	188	33	17.9	155	166	30	136	128	19	109
1966-1970	53,459	232	29	12.5	203	206	27	180	157	18	139
1971-1975	53,760	319	30	9.5	290	292	28	264	220	24	196
1976-1980	53,700	458	40	8.7	418	425	38	387	316	30	286
1981-1985	50,124	452	57	12.4	395	424	55	369	277	36	241
1970	53,293	254	26	10.3	228	227	24	202	171	19	152
1975	51,443	355	32	9.9	323	326	30	297	240	26	215
1980	53,645	492	52	10.6	440	460	50	410	310	34	276
1982	47,940	438	59	13.5	379	412	57	355	255	36	219
1983	47,144	442	62	14.0	380	418	60	355	262	38	223
1984	49,239	459	53	11.5	406	429	51	378	291	33	256
1985	53,531	451	53	11.7	398	426	52	374	283	34	249
Cleared:											
1961-1965	48,098	189	34	17.9	155	168	30	137	96	20	76
1966-1970	52,415	232	30	12.8	202	206	27	179	122	23	95
1971-1975	53,039	324	31	9.9	293	296	29	267	149	21	127
1976-1980	52,931	453	41	9.1	412	420	38	382	203	26	177
1981-1985	50,291	460	57	12.4	403	432	55	377	251	34	217
1970	52,195	253	27	10.6	226	226	25	201	132	20	112
1975	51,017	363	34	10.3	329	334	31	303	168	23	144
1980	52,928	487	54	11.1	433	456	61	405	246	33	213
1982	46,409	448	60	13.4	388	421	68	353	257	35	222
1983	47,493	449	62	13.8	387	423	60	363	247	36	211
1984	49,819	468	54	11.5	414	438	51	387	250	32	218
1985	53,095	461	55	11.9	406	435	53	382	253	36	217

Source: U.S. Bureau of the Census, through 1965, *Foreign Commerce and Navigation of the United States*; thereafter, *Vessel Entrances and Clearances*, FT 975, annual.

**NO. 1082. VESSELS ENTERED AND CLEARED IN FOREIGN TRADE—NET REGISTERED TONNAGE, BY COASTAL DISTRICTS: 1970 TO 1985**

[In millions of net tons. Excludes domestic trade. Virgin Islands and Puerto Rico included in South Atlantic Coast, Hawaii in South Pacific Coast, Alaska in North Pacific Coast]

COASTAL DISTRICT	VESSELS ENTERED						VESSELS CLEARED					
	1970	1975	1980	1983	1984	1985	1970	1975	1980	1983	1984	1985
North Atlantic Coast	102.1	114.2	118.6	107.2	116.2	114.5	99.9	116.6	115.2	101.2	107.0	110.8
With cargo	85.4	92.3	82.1	80.7	93.4	85.9	43.7	50.6	57.8	44.6	47.1	52.7
South Atlantic Coast	36.1	48.0	65.3	60.5	63.8	69.2	31.3	46.0	60.1	59.3	62.7	63.3
With cargo	27.1	33.8	41.9	38.3	42.7	44.3	11.9	14.3	22.4	23.7	24.6	25.6
Gulf Coast	35.1	89.1	172.7	141.3	139.5	127.4	42.8	96.1	175.0	143.9	144.6	134.9
With cargo	23.0	60.8	122.8	85.7	91.5	84.6	36.8	54.2	85.0	79.8	79.1	73.5
South Pacific Coast	27.5	38.4	53.3	59.6	60.9	65.4	27.7	41.2	45.1	55.2	58.8	59.4
With cargo	21.8	32.4	36.0	36.8	41.0	44.0	20.9	24.0	31.7	45.1	44.9	45.0
North Pacific Coast	24.9	38.8	50.6	46.9	49.5	50.0	24.3	33.8	60.3	63.2	64.8	66.7
With cargo	13.6	21.1	26.6	20.7	22.1	23.7	19.0	24.5	49.0	53.8	54.7	56.0
Great Lakes	27.5	28.8	31.1	26.1	30.1	26.3	27.2	29.4	31.5	26.6	30.0	26.1
With cargo	15.2	14.0	11.3	11.5	13.5	11.6	20.2	21.2	23.7	20.0	23.1	20.7

Source: U.S. Bureau of the Census, *Vessel Entrances and Clearances*, FT 975, annual.

**NO. 1083. DOMESTIC MERCHANT VESSELS COMPLETED BY U.S. SHIPYARDS: 1970 TO 1985**

[Vessels of 1,000 gross tons and over. See also *Historical Statistics, Colonial Times to 1970*, series Q 438-448]

TYPE	Unit	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Merchant vessels	Number	13	15	16	17	14	15	10	12	11	13	5	7
Gross tons	1,000	342	452	615	884	912	1,149	375	275	337	376	118	157
Cargo	Number	6	3	4	2	2	4	6	2	6	6	-	3
Gross tons	1,000	120	66	57	25	27	53	106	53	221	228	-	99
Deadweight tons	1,000	134	71	76	37	30	47	114	73	219	219	-	72
Tankers	Number	7	12	12	15	12	11	4	10	5	7	5	4
Gross tons	1,000	222	387	558	859	885	1,086	270	222	116	148	118	58
Deadweight tons	1,000	427	742	1,176	1,585	1,392	1,901	354	358	226	277	210	92

- Represents zero.

Source: U.S. Maritime Administration, *New Ship Construction*, annual.

## No. 1084. UNITED STATES FLAG MERCHANT VESSELS—NUMBER AND TONS CARRIED: 1970 TO 1985

[Deadweight tonnage in thousands. As of end of fiscal year; see text, section 9. Covers oceangoing vessels of 1,000 gross tons and over engaged in foreign and domestic trade, and inactive vessels. Excludes special types such as tugs, barges, cable ships, fishing trawlers, and vessels employed on Great Lakes. See also *Historical Statistics, Colonial Times to 1970*, series Q 467-502]

ITEM	CARGO <sup>1</sup>						TANKER					
	1970	1975	1980	1983	1984	1985	1970	1975	1980	1983	1984	1985
<b>Number of vessels .....</b>	<b>1,479</b>	<b>612</b>	<b>553</b>	<b>517</b>	<b>477</b>	<b>485</b>	<b>301</b>	<b>279</b>	<b>310</b>	<b>302</b>	<b>272</b>	<b>263</b>
Active:												
Foreign trade .....	354	228	195	141	122	129	32	39	32	43	38	32
Domestic trade <sup>2</sup> .....	70	49	46	40	41	36	175	156	211	164	142	135
Coastwise .....	10	17	12	8	5	4	132	136	103	72	25	24
Noncontiguous .....	43	29	34	30	30	30	35	12	45	29	47	52
Special service .....	146	34	44	45	38	45	42	26	23	27	27	26
Inactive:												
Temporarily .....	41	38	31	60	62	58	22	31	24	58	51	50
Reserve fleet .....	868	263	237	231	214	217	30	27	20	10	14	20
<b>Tons carried .....</b>	<b>15,445</b>	<b>8,175</b>	<b>7,872</b>	<b>7,991</b>	<b>7,876</b>	<b>8,792</b>	<b>7,835</b>	<b>9,433</b>	<b>16,107</b>	<b>16,746</b>	<b>16,089</b>	<b>15,647</b>
Active:												
Foreign trade .....	4,699	3,901	3,826	3,281	3,108	3,623	1,076	2,303	2,793	2,419	2,324	1,825
Domestic trade <sup>2</sup> .....	850	832	713	660	613	659	4,518	4,855	10,546	9,875	8,793	8,909
Coastwise .....	116	354	200	161	148	108	3,483	4,299	3,078	2,456	1,170	1,028
Noncontiguous .....	482	424	479	457	481	509	870	339	3,699	2,189	4,783	5,534
Special service .....	1,741	459	560	673	587	932	1,189	755	661	845	894	747
Inactive:												
Temporarily .....	472	541	451	931	1,023	1,169	691	1,173	1,806	3,608	3,823	3,758
Reserve fleet .....	7,684	2,442	2,322	2,446	2,345	2,409	381	347	301	199	315	408

<sup>1</sup> Includes combination passenger and cargo vessels, not shown separately. <sup>2</sup> Includes intercoastal, not shown separately.

Source: U.S. Maritime Administration, *Employment Report of the United States Flag Merchant Fleet Ocean-going Vessels 1,000 Gross Tons and Over*, annual.

## No. 1085. PRIVATE SHIPYARDS—SUMMARY: 1970 TO 1986

[For calendar year, unless noted. See also *Historical Statistics, Colonial Times to 1970*, series Q 449-458 and series Q 467-472]

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
<b>Employment .....</b>	<b>1,000 .....</b>	<b>133.4</b>	<b>166.9</b>	<b>171.0</b>	<b>177.3</b>	<b>178.9</b>	<b>165.9</b>	<b>143.0</b>	<b>142.0</b>	<b>139.9</b>	<sup>1</sup> <b>136.0</b>
Production workers .....	1,000 .....	108.5	133.4	136.7	141.8	142.2	130.8	112.0	111.0	102.3	<sup>1</sup> <b>99.0</b>
Value of work done .....	Mil. dol .....	2,682	5,615	7,739	9,269	11,001	10,979	9,883	8,944	(NA)	(NA)
On ships only .....	Mil. dol .....	2,594	5,513	7,466	8,889	10,690	10,655	9,107	8,308	(NA)	(NA)
Value added .....	Mil. dol .....	1,616	2,923	4,587	5,338	6,304	6,386	5,752	5,206	(NA)	(NA)
<b>Building activity:</b>											
Merchant vessels: <sup>3</sup>											
Under construction <sup>3</sup> .....	Number .....	49	96	70	69	49	35	21	10	10	7
Ordered .....	Number .....	13	14	21	7	9	3	4	5	-	(NA)
Delivered .....	Number .....	13	19	21	23	22	17	15	5	3	(NA)
Cancelled .....	Number .....	-	12	1	4	1	-	-	-	-	(NA)
Under contract <sup>4</sup> .....	Number .....	49	79	69	49	35	21	10	10	7	(NA)
Naval vessels: <sup>2</sup>											
Under construction <sup>3</sup> .....	Number .....	108	63	102	99	91	93	105	111	100	85
Ordered .....	Number .....	6	16	13	11	26	30	27	11	11	(NA)
Delivered .....	Number .....	32	3	16	19	26	18	21	22	26	(NA)
Under contract <sup>4</sup> .....	Number .....	82	76	89	91	93	105	111	100	85	(NA)
<b>Repairs/conversions:</b>											
Commercial ships .....	Mil. dol .....	431	688	998	1,335	1,568	1,592	1,003	913	(NA)	(NA)
Naval ships .....	Mil. dol .....	359	554	969	1,134	1,251	1,571	1,819	1,909	(NA)	(NA)
<b>Unfinished work: <sup>3</sup></b>											
Commercial ships .....	Mil. dol .....	765	4,350	1,940	2,070	1,000	838	372	100	450	210
Naval ships .....	Mil. dol .....	1,719	5,424	7,338	7,107	6,760	8,025	12,200	14,003	11,754	8,500

- Represents zero. NA Not available. <sup>1</sup> Estimate as of July. <sup>2</sup> Vessels of 1,000 tons or larger. <sup>3</sup> As of Jan. 1.

<sup>4</sup> As of Dec. 31.

Source: Shipbuilders Council of America, Washington, DC, *Annual Report*.

### NO. 1086. EMPLOYEES IN GOVERNMENT AND PRIVATE SHIPYARDS: 1960 TO 1985

[In thousands. Annual average employment in establishments primarily engaged in building and repairing all types of ships, barges, canal boats, and lighters of 5 gross tons and over, whether propelled by sail or motor power, or towed by other craft. Includes all full- and part-time employees]

YEAR	Total	Private yards	Navy yards	YEAR	Total	Private yards	Navy yards	YEAR	Total	Private yards	Navy yards
1960.....	208	112	96	1976.....	233	168	65	1981.....	264	187	77
1970.....	216	134	83	1977.....	242	174	68	1982.....	252	172	80
1971.....	214	149	65	1978.....	243	172	71	1983.....	227	143	84
1972.....	225	161	64	1979.....	244	173	71	1984.....	229	146	83
1973.....	217	154	65	1980.....	251	178	73	1985.....	221	140	81

Source: U.S. Bureau of Labor Statistics, unpublished data. (Data for private yards published monthly in *Employment and Earnings*.)

### NO. 1087. EMPLOYMENT ON U.S. FLAG MERCHANT VESSELS, 1970 TO 1985, AND BASIC MONTHLY (JANUARY) WAGE SCALE FOR ABLEBODIED SEAMEN, 1970 TO 1986

[Employment in thousands. See also *Historical Statistics, Colonial Times to 1970*, series Q 414-416]

YEAR	Employment <sup>1</sup>	YEAR	Employment <sup>1</sup>	YEAR	East coast wage rate <sup>2</sup>	West coast wage rate <sup>2</sup>	YEAR	East coast wage rate <sup>2</sup>	West coast wage rate <sup>2</sup>
1970.....	37.6	1981.....	18.3	1970.....	\$470	\$652	1981.....	\$1,120	\$1,535
1975.....	20.5	1982.....	16.7	1975.....	612	900	1982.....	1,204	1,686
1976.....	19.9	1983.....	15.3	1977.....	737	1,072	1983.....	1,320	1,862
1978.....	19.7	1984.....	13.7	1978.....	804	1,172	1984.....	1,419	2,029
1980.....	19.6	1985.....	13.1	1979.....	865	1,287	1985.....	1,419	2,069
				1980.....	967	1,414	1986.....	1,419	2,132

<sup>1</sup> As of June 30, except beginning 1978, as of Sept. 30. Estimates of personnel employed on merchant ships, 1,000 gross tons and over. Excludes vessels on inland waterways, Great Lakes, and those owned by, or operated for, U.S. Army and Navy, and special types such as cable ships, tugs, etc. <sup>2</sup> Basic monthly wage, over and above subsistence (board and room); excludes overtime and fringe pay benefits. West coast incorporates extra pay for Saturdays and Sundays at sea into base wages but east coast does not.

Source: U.S. Maritime Administration, *U.S. Merchant Marine Data Sheet*, monthly and unpublished data.

### NO. 1088. WORLDWIDE TANKER CASUALTIES: 1975 TO 1986

[Data for 1975-1982 covers tankers, ore/oil carriers and bulk/oil vessels of 6,000 deadweight tons and over; beginning 1983, 10,000 deadweight tons and over; excludes liquid gas carriers. Incident is counted in the year it is reported. Based on data from "Lloyd's List" published by Lloyd's of London. "Casualties" include weather damage, strandings, collisions and other contact, fires and explosions, machinery damage, and other mishaps]

ITEM	Unit	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986 <sup>1</sup>
Total losses <sup>2</sup> .....	Number.....	22	20	17	26	15	21	21	11	14	12	1
Deaths.....	Number.....	90	113	148	308	132	73	72	14	68	53	6
Oil spills.....	Number.....	45	49	35	65	32	33	9	17	15	9	5
Amount.....	1,000 tons.....	188.0	213.1	260.5	723.5	135.6	45.3	1.8	387.8	22.4	79.8	.8

<sup>1</sup> Jan.-March. <sup>2</sup> Excludes losses due to hostilities.

Source: Tanker Advisory Center, Inc., New York, NY, "Worldwide Tanker Casualty Returns," quarterly.

### NO. 1089. MERCHANT VESSELS—WORLD AND UNITED STATES: 1960 TO 1985

[Vessels of 100 gross tons and over. Excludes sailing ships, nonpropelled craft, and all ships built of wood. See also *Historical Statistics, Colonial Times to 1970*, series Q 473-480]

YEAR	WORLD: COMPLETED		WORLD: OWNED		U.S.: COMPLETED		U.S.: REGISTERED	
	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)
1960.....	2,005	8,382	36,311	129,770	49	379	4,059	24,837
1965.....	2,202	11,763	41,865	160,392	116	218	3,416	21,527
1970.....	2,814	20,980	52,444	227,490	156	375	2,983	18,469
1980.....	2,412	13,101	73,882	419,911	205	555	5,579	18,464
1981.....	2,269	16,932	73,864	420,935	223	360	5,869	18,908
1982.....	2,312	16,820	75,151	424,742	204	216	6,133	19,111
1983.....	2,276	16,911	78,106	422,590	159	381	6,437	19,356
1984.....	2,210	18,334	78,068	418,682	73	84	6,441	19,292
1985.....	1,964	18,157	76,395	412,269	66	180	6,447	19,518

Source: Lloyd's Register of Shipping, London, England, *Statistical Tables*, annual; and *Annual Summary of Merchant Ships Completed in the World*.

### NO. 1090. MERCHANT VESSELS—SHIPS AND TONNAGE LOST WORLDWIDE, BY TYPE OF SHIP: 1980 TO 1984

[For merchant vessels of 100 gross tons or more. Excludes ships which have been declared constructive losses but have undergone repair during the year. Loss counted in the year the casualty occurred, providing that information available at time of relevant publication]

TYPE OF SHIP	SHIPS LOST					GROSS TONNAGE LOST (1,000)				
	1980	1982	1983	1984		1980	1982	1983	1984	
				Total	Percent of total				Total	Percent of total
<b>Total <sup>1</sup></b>	<b>367</b>	<b>402</b>	<b>340</b>	<b>327</b>	<b>100.0</b>	<b>1,804</b>	<b>1,632</b>	<b>1,473</b>	<b>2,354</b>	<b>100.0</b>
Tankers.....	24	26	18	25	7.6	707	609	487	1,542	65.5
Ore/bulk carriers <sup>2</sup> .....	21	17	26	17	5.2	458	288	410	271	11.5
General cargo.....	211	214	191	178	54.4	478	615	511	401	17.0
Container ships.....	2	3	1	3	.9	6	14	6	34	1.4
Passenger <sup>3</sup> .....	9	—	2	2	.6	112	—	5	17	.7
Fishing.....	96	96	71	73	22.3	30	34	21	33	1.4

<sup>1</sup> Includes types not shown separately. <sup>2</sup> Includes ore/bulk/oil carriers. <sup>3</sup> Includes passenger cargo ships.

Source: Lloyd's Register of Shipping, London, England, *Casualty Return*, annual.

### NO. 1091. MERCHANT FLEETS OF THE WORLD: 1970 TO 1984

[Vessels of 1,000 gross tons and over. 1970-1975 as of Dec. 31. Beginning 1980, as of Jan. 1 of the following year. Specified countries have 100 or more ships]

YEAR AND COUNTRY OF REGISTRY, 1984	TOTAL		PASSENGER/ CARGO COMB.		FREIGHTERS		BULK CARRIERS <sup>1</sup>		TANKERS	
	Num- ber	Avg. age (yr.)	Num- ber	Avg. age (yr.)	Num- ber	Avg. age (yr.)	Num- ber	Avg. age (yr.)	Num- ber	Avg. age (yr.)
<b>1970, world total</b> .....	<b>19,930</b>	<b>13</b>	<b>895</b>	<b>21</b>	<b>11,899</b>	<b>13</b>	<b>2,954</b>	<b>8</b>	<b>4,232</b>	<b>11</b>
United States.....	1,579	22	171	25	1,076	23	38	25	294	19
Foreign.....	18,401	12	724	20	10,823	13	2,916	8	3,938	10
<b>1975, world total</b> .....	<b>22,872</b>	<b>12</b>	<b>714</b>	<b>21</b>	<b>12,575</b>	<b>13</b>	<b>4,272</b>	<b>9</b>	<b>5,311</b>	<b>11</b>
United States.....	857	21	60	29	511	21	19	25	267	19
Foreign.....	22,015	12	654	21	12,064	13	4,253	9	5,044	11
<b>1980, world total</b> .....	<b>24,867</b>	<b>13</b>	<b>468</b>	<b>24</b>	<b>14,252</b>	<b>14</b>	<b>4,798</b>	<b>10</b>	<b>5,359</b>	<b>12</b>
United States.....	864	23	65	34	471	23	20	22	308	20
Foreign.....	24,003	13	403	22	13,771	13	4,778	10	5,051	11
<b>1984, world total</b> .....	<b>25,424</b>	<b>13</b>	<b>363</b>	<b>24</b>	<b>14,019</b>	<b>14</b>	<b>5,560</b>	<b>11</b>	<b>5,482</b>	<b>12</b>
United States.....	744	22	35	36	421	25	23	10	285	18
Privately owned.....	492	16	6	27	216	17	23	10	247	16
Government-owned.....	252	34	29	38	205	33	—	(x)	16	37
Foreign.....	24,680	13	328	23	13,598	14	5,537	11	5,217	12
Argentina.....	182	16	1	33	97	16	17	16	67	20
Brazil.....	346	13	3	23	184	16	83	5	76	13
British Colonies.....	356	11	3	24	155	13	165	8	33	14
Bulgaria.....	115	13	4	10	50	15	44	11	17	16
China: Mainland.....	901	16	12	25	616	18	152	13	121	15
Taiwan.....	201	12	1	13	114	12	68	11	18	11
Cuba.....	102	15	2	27	79	5	9	14	12	12
Cyprus.....	589	17	4	26	392	19	115	15	78	13
Denmark.....	272	7	3	20	171	7	15	7	83	8
Egypt.....	113	17	10	29	84	14	7	9	12	27
Finland.....	145	10	3	9	70	11	32	7	40	10
France.....	291	10	5	14	151	10	43	9	92	11
German Dem. Rep.....	158	13	2	30	131	12	22	17	3	4
Germany, Fed. Rep. of.....	455	6	5	5	335	6	26	6	89	7
Greece.....	2,120	16	37	30	916	18	843	13	324	17
India.....	377	13	7	19	203	15	118	12	49	8
Indonesia.....	302	16	7	21	220	17	10	6	65	13
Iran.....	101	11	—	(x)	44	13	36	8	21	11
Italy.....	579	17	12	25	234	16	107	15	226	17
Japan.....	1,629	7	6	9	675	7	472	8	476	7
Korea, Rep. of.....	499	12	—	(x)	254	13	172	11	73	12
Lebanon.....	114	23	—	(x)	102	23	9	19	3	27
Liberia.....	1,929	11	10	20	412	10	781	10	726	11
Malaysia.....	171	14	2	34	122	16	18	7	29	9
Malta.....	152	21	2	51	103	22	43	19	4	17
Netherlands.....	453	8	5	9	353	7	30	7	65	11
Norway.....	496	9	21	16	133	8	121	7	223	8
Panama.....	3,500	13	31	31	2,090	15	877	11	502	12
Philippines.....	339	15	4	23	193	15	93	10	39	22
Poland.....	286	12	2	20	194	13	82	11	8	9
Romania.....	248	9	3	46	181	9	67	8	9	9
Saudi Arabia.....	190	19	3	23	102	21	21	17	64	16
Singapore.....	516	14	3	25	323	15	87	9	103	12
Soviet Union.....	2,531	15	45	18	1,809	15	203	9	474	15
Spain.....	503	9	1	55	320	9	76	9	106	12
Sweden.....	213	9	2	21	118	9	22	9	71	10
Turkey.....	293	12	7	32	185	11	52	13	49	12
United Kingdom.....	613	11	12	15	224	10	116	9	261	11
Yugoslavia.....	284	16	4	22	191	16	58	12	11	15
All others.....	2,034	14	36	20	1,288	15	235	11	495	13

— Represents zero. X Not applicable. <sup>1</sup> Includes bulk, oil, ore/oil, and ore/bulk/oil carriers.

Source: U.S. Maritime Administration, *A Statistical Analysis of the World's Merchant Fleets*, annual.